



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 7**

11201 Renner Boulevard  
Lenexa, Kansas 66219

JAN 16 2018

Mr. William Ehm, Division Administrator  
Environmental Services Division  
Iowa Department of Natural Resources  
Wallace Building  
502 East 9th Street  
Des Moines, Iowa 50319

Dear Mr. Ehm:

The U.S. Environmental Protection Agency has completed its review of the 2016 Iowa Clean Water Act, Section 303(d) List of water quality-limited segments still requiring Total Maximum Daily Loads. The list was submitted by the Iowa Department of Natural Resources on December 1, 2017, and received by the EPA on December 4, 2017.

The IDNR's Section 303(d) List submittal included:

- 1) A letter identifying the submittal as Iowa's 2016 Section 303(d) List;
- 2) Iowa's final 2016 CWA, Section 303(d) impaired waters list (including a list of priority waters for TMDL development);
- 3) The full Integrated Report for 2016;
- 4) The IDNR's 2016 assessment and listing methodology;
- 5) A summary of waters removed from Iowa's 2014 Section 303(d) List;
- 6) A public participation responsiveness summary, including copies of all public comments and responses.

The IDNR's submission is formatted consistent with the EPA's guidance regarding "integrated reporting" and therefore contains five separate categories of listing waters. There are 608 water body segments and 768 impairments within Category 5 of Iowa's integrated report which constitutes Iowa's list of water quality-limited segments still requiring TMDLs subject to the EPA's approval.

Based on its review, the EPA has determined that the IDNR's list of water quality-limited segments and their impairments still requiring TMDLs meets the requirements of Section 303(d) of the CWA and the EPA's implementing regulations. The EPA is therefore approving the 2016 Iowa CWA, Section 303(d) List.

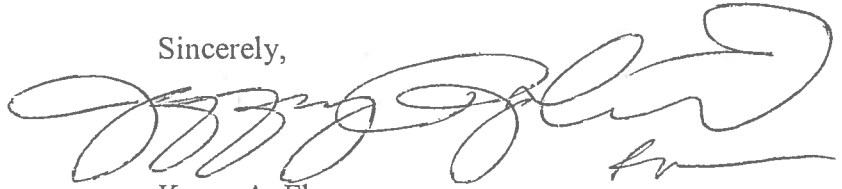
I congratulate you and your staff for the completion of the list development and submission process. This process requires a significant amount of staff resources and involves a complex evaluation and assessment of water quality data. We look forward to working with the IDNR on the development of the 2018 Section 303(d) List in the near future.



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If you would like to further discuss the EPA's action, please contact me at (913) 551-7782, or Bruce Perkins, of my staff, at (913) 551-7067.

Sincerely,

A handwritten signature in black ink, appearing to read 'Karen A. Flourney', with a stylized flourish at the end.

Karen A. Flourney

Director

Water, Wetlands and Pesticides Division

Enclosure

cc: Mr. Dan Kendall, IDNR  
Mr. James Havard, EPA HQ

**United States Environmental Protection Agency**

**Region 7**

**2016 Decision Document**



**Iowa's Clean Water Act**

**Section 303(d) List**

**Water Quality Limited Segments Still Requiring TMDLs**

A handwritten signature in black ink, appearing to read "Karen A. Flourney", is written over a horizontal line.

Karen A. Flourney

Director

Water, Wetlands and Pesticides Division

1/12/18  
Date

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# **DECISION DOCUMENT OF THE 2016 IOWA CLEAN WATER ACT, SECTION 303(d) LIST WATER QUALITY LIMITED SEGMENTS STILL REQUIRING TMDLS**

## **I. EXECUTIVE SUMMARY**

On December 1, 2017, the Iowa Department of Natural Resources (IDNR) submitted its 2016 update to its Clean Water Act (CWA) Section 303(d) List to the United States Environmental Protection Agency (EPA) for review, herein referred to as the submittal. Following its review of Iowa's complete submittal, the EPA is approving the state's removal of 36 water body segments representing 38 impairments and the addition of 91 new water body segments representing 98 impairments to the state's CWA Section 303(d) List. This document summarizes the EPA's review and the basis for its decision.

Section 303(d)(1) of the CWA directs states to identify those waters within their jurisdictions for which effluent limitations required by Section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard (referred to as 'water quality-limited segments' defined in 40 C.F.R. 130.7), and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The CWA Section 303(d) listing requirement applies to water quality-limited segments impaired by pollutant loadings from both point and/or nonpoint sources. After a state submits its CWA Section 303(d) list to the EPA, the Agency is required to approve or disapprove that list.

Iowa's 2016 submittal is an update to the state's most recently approved CWA Section 303(d) List, approved by the EPA on September 11, 2015 (i.e., the state's 2014 CWA Section 303(d) List). In its submittal, the IDNR included its assessment methodology to identify waters that do not meet the state's approved water quality standards and, therefore, are required to be included on CWA Section 303(d) lists. This 2016 assessment methodology includes revisions to the methodology utilized to develop the 2014 CWA Section 303(d) List for Iowa. Water quality data that meet the assessment criteria included within the state's 2016 revised methodology were evaluated by the IDNR. Those waters determined to be water quality-limited were submitted to the EPA as an update to the CWA Section 303(d) List. The methodology establishes specific protocols and thresholds for assessing water bodies, in addition to data sufficiency and data quality requirements. The methodology contains procedures for assessing both aquatic life use support and human health use support.

In 2000, the Iowa legislature enacted its "Credible Data Law" which sets out, in statute, minimum requirements for the use of water quality data for purposes of state water quality standards development and review, water quality assessment, changes to the state's CWA Section 303(d) list, determining designated use support or classification, identification of water quality degradation and establishment of TMDLs. The IDNR has stated that nearly all recent water quality data have already been used for Section 305(b) assessments and thus have already been considered for Section 303(d) listings. Also, a listed water body will not be removed from the state's Section 303(d) List simply because the data upon which the impairment was based have aged beyond five years.

All waters which were included in Iowa's approved 2016 CWA Section 303(d) List will remain on the state's CWA Section 303(d) list, unless the IDNR removes a water body from a future list and the EPA approves the removal. The IDNR's submittal for the EPA review includes an updated list reflecting, among other things:

- Additional water bodies which the IDNR determined to be water quality-limited segments pursuant to the state's listing methodology and, therefore, included in the update of the CWA Section 303(d) List which the IDNR submitted to the EPA for review; and
- Water bodies included on Iowa's previously approved 2014 CWA Section 303(d) List which were determined not to need TMDLs pursuant to the listing methodology and, therefore, removed from the update of the CWA Section 303(d) List submitted to the EPA for review.

While the guidelines, protocols, and requirements in state statute and the IDNR listing methodology might be useful tools for the IDNR to use in identifying impaired waters, they are not part of the state's EPA-approved water quality standards. Hence, the EPA did not rely solely on the state's statute or the methodology in reviewing Iowa's list. Instead, the EPA reviewed all available information including any information excluded under the state's methodology, to determine if the state's list was developed consistent with the state's underlying EPA-approved water quality standards. The EPA's review process generally followed a two-step analysis:

- 1) The EPA reviewed the state's listing methodology, including data collection and data assessment requirements, to determine whether, based on Iowa's EPA-approved water quality standards, the methodology was a reasonable method for identifying water quality-limited segments; and
- 2) Where the EPA was unsure whether the methodology was a reasonable method for identifying water quality-limited segments, the Region requested additional information from the IDNR to conduct further water body and data analysis.

Following the EPA's decision on Iowa's 2016 submission, the current CWA Section 303(d) List in the state of Iowa contains:

- approved removals from the 2014 CWA Section 303(d) List (Table 1); and
- an approved 2016 CWA Section 303(d) list with new listings identified (Table 2).

The statutory and regulatory requirements relevant to CWA Section 303(d) lists, and the EPA's review of Iowa's compliance with each requirement, are described in detail below. The EPA's approval of Iowa's Section 303(d) List extends to all water bodies on the list with the exception of those waters that may be located within Indian Country, as defined in 18 U.S.C. Section 1151. The EPA is taking no action to approve or disapprove the state's list with respect to those waters at this time. The EPA, or eligible Indian Tribes, as appropriate, will retain responsibilities under Section 303(d) for those waters. In addition, the EPA approval actions of state Section 303(d) lists do not constitute a finding of state and/or tribal jurisdiction over particular waters.

## **II. STATUTORY AND REGULATORY BACKGROUND**

### **A. Identification of Water Quality-limited Segments for Inclusion on the CWA Section 303(d) List**

Section 303(d)(1) of the CWA directs a state to identify those waters within its jurisdiction for which effluent limitations required by Section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard, and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The Section 303(d) listing requirement applies to waters impaired by point and/or nonpoint sources, pursuant to the EPA's long-standing interpretation of Section 303(d).

The EPA regulations at 40 CFR 130.7(b)(1) provide that states do not need to list waters where the following controls are adequate to implement applicable standards:

- technology-based effluent limitations required by the CWA;
- more stringent effluent limitations required by state or local authority; and
- other pollution control requirements required by state, local, or federal authority.

### **B. Consideration of Existing and Readily Available Water Quality-Related Data and Information**

In developing Section 303(d) lists, states are required to assemble and evaluate all existing and readily available water quality related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters:

- Waters identified as partially meeting or not meeting designated uses, or as threatened, in the state's most recent Section 305(b) report;
- Waters for which dilution calculations or predictive modeling indicate non-attainment of applicable standards;
- Waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions; and
- Waters identified as impaired or threatened in any Section 319 nonpoint assessment submitted to EPA (see 40 CFR § 130.7(b)(5)).

States are also required to consider any other data and information that is existing and readily available. The EPA's 1991 Guidance for Water Quality-Based Decisions describes categories of water quality related data and information that may be existing and readily available (see Guidance for Water Quality-Based Decisions, The TMDL Process, EPA Office of Water, 1991, Appendix C ("EPA's 1991 Guidance")). While states are required to evaluate all existing and readily available water quality-related data and information, states may decide to rely or not rely on particular data or information in determining whether to list particular waters.

In addition to requiring states to assemble and evaluate all existing and readily available water quality-related data and information, the EPA regulations at 40 CFR § 130.7(b)(6) require states to include as part of their submissions to the EPA, documentation to support decisions to rely or not to rely on particular data and information and decisions to list or not to list waters. Such documentation needs to include, at a minimum, the following information:

- a description of the methodology used to develop the list;
- a description of the data and information used to identify waters;
- a rationale for any decision to not use any existing and readily available data and information; and
- any other reasonable information requested by the Region.

### **C. Priority Ranking**

The EPA regulations also codify and interpret the requirement in the CWA, Section 303(d)(1)(A) of the Act, that states establish a priority ranking for listed waters. The regulations at 40 CFR § 130.7(b)(4) require states to prioritize waters on their Section 303(d) lists for TMDL development, and also to identify those water quality-limited segments (WQLS) targeted for TMDL development in the next two years. In prioritizing and targeting waters, states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters (see CWA Section 303(d)(1)(A)). As long as these factors are taken into account, the Act provides that states establish priorities. States may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitats, recreational, economic, and aesthetic importance of particular waters, degree of public interest and support, and state or national policies and priorities (see 57 FR 33040, 33045 [July 24, 1992], and the EPA's 1991 Guidance). For the 2014 Integrated Report, the state initiated a priority vision which identifies the state's priorities. The state has identified Tier I through Tier IV waters based on the water body/ and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act. (March 28, 2017) - Attachment 7: State of Iowa Long-Term Vision for Assessment, Restoration, and Protection under the Clean Water Act Section 303(d) Program (updated March 2017). pollutant social impact and complexity (or cost) of TMDL development. A full discussion of this long-term vision can be found in the state submittal, Methodology for Iowa's 2016 Water Quality Assessment, Listing,

## **III. IOWA'S APPROACH TO IDENTIFYING WATERS FOR THE 2016 SECTION 303(d) LIST**

### **A. Iowa's 2016 Integrated Report Format**

The EPA guidance for states in meeting the requirements of CWA Section 303(d) recommends a format which integrates the requirements of both CWA Sections 305(b) and 303(d) in creating a five category "integrated report" format. The 2016 Iowa submission under CWA Section 303(d) is the seventh submission by the state of Iowa using this "integrated report" format. Category 5 of the 2016 integrated report (IR) constitutes Iowa's list of impaired waters for purposes of CWA Section 303(d), and is subject to the EPA's review and approval. The EPA is taking action only on Category 5 which includes water quality-limited segments still requiring TMDLs. The following describes the five categories constituting Iowa's IR and the number of water bodies assigned to each category by the IDNR. Under Iowa's five category system, most water bodies are assigned to one category. The information below regarding Categories 1-4 is provided for information purposes only, as the EPA does not approve Categories 1-4 but does approve Category 5.

Category 1 consists of nine water body segments attaining all designated uses and no use is threatened.



Category 2 consists of 318 water body segments for which some, but not all, designated uses are attained and none are threatened. Attainment status of the remaining designated uses is unknown because data are insufficient to categorize a water body consistent with the state's listing methodology.

Category 3 consists of 476 water body segments for which there are insufficient or no data and information to determine, consistent with the state's listing methodology, if any designated use is impaired or attained.

Category 4 consists of 199 water body segments for which one or more designated uses are impaired or threatened but establishment of a TMDL is not required.

Category 5 consists of 608 water body segments for which one or more pollutants has caused, is suspected of causing, or is projected to cause an impairment or threat of impairment of one or more designated uses and the establishment of a TMDL is required. This category also includes those segments for which impairment is indicated, but the cause or source is unknown and segments for which the impairment is to a presumed use. In total this category contains 768 impairments.

The state's IR format includes sub-categories within Categories 3, 4 and 5. Only water body segments within Category 5 are subject to the EPA's approval. Within Category 3, the IDNR has added Category 3b which includes those water body segments for which there is "evaluated data" which suggest a potential impairment. According to the IDNR's methodology, "waters 'evaluated' as impaired are identified as having insufficient data to determine whether beneficial uses are met." In short, those data determined by the IDNR to be "evaluated data" are not deemed by the IDNR to be of adequate quality or quantity to support a determination that a use designated within state water quality standards is or is not being met. Iowa's use of a category of "evaluated data" for statistical analysis is allowed in the EPA's guidance. Iowa uses this analysis to ensure statistical certainty before listing a water body segment as impaired. The 301 water body segments listed within Category 3b where there is a potential impairment are placed by the IDNR on a list of waters in need of further investigation. This list serves to support the EPA's evaluation of the IDNR's data assessment process and its determination that all water quality-limited segments were listed by the IDNR in Category 5. Subcategory 3b is also subdivided into -c and -u. In the case of -c, a biological assessment has been conducted for a water body segment where the drainage area is within the range of calibration for the assessment protocol; -u indicates an assessment for a water body segment outside the calibration range.

The state's IR format also incorporates an expansion of Category 4 into four sub-categories. Sub-category 4a includes waters that are threatened or impaired, but for which a TMDL has been completed and approved by the EPA. Sub-category 4b includes waters that are threatened or impaired, but for which "other required control measures are expected to result in the attainment of water quality standards." Sub-category 4c includes waters where the "threat or impairment is not caused by a pollutant." Sub-category 4d includes waters impaired by a fish kill but where enforcement actions have been taken against a responsible party. Sub-categories 4a through 4c are recognized within the EPA's guidance for the development of an integrated report. However, sub-category 4d constitutes a variation on the EPA's guidance. The EPA's review of the state categories and sub-categories was conducted within the context of whether or not a water body segment should be listed within Category 5 based on existing and readily available data and information.

The state's IR format also included three subcategories within Category 5 which distinguish between whether the cause of impairment is known (Category 5a), the cause of impairment is unknown (Category 5b), or the cause of the impairment is presumptive pending the completion of use attainability analyses (Category 5p).

## **B. Iowa's 2016 Methodology**

The IDNR's "Methodology for Iowa's 2016 Water Quality Assessment, Listing, and Reporting Pursuant to Sections 305(b) and 303(d) of the Federal Clean Water Act," (March 28, 2017), guides the IDNR's evaluation of "existing and readily available water quality-related data and information" (40 CFR 130.7(b)(5)) and identification of "water quality-limited segments still requiring TMDLs" (40 CFR 130.7(a). As described earlier, Category 5 of the 2016 list constitutes Iowa's list of impaired waters for purposes of CWA Section 303(d) and is subject to the EPA's review and approval. The EPA is taking action only on Category 5 which consists of water quality-limited segments still requiring TMDLs.

Changes in the IDNR's methodology include: 1) the state eliminated its category 2b subcategory, 2) the state developed a new numbering system for water body identification. These changes comply with the state's EPA-approved water quality standards and the EPA's recommendations for Integrated Reporting.

According to the state's "Listing Methodology," data sources used to assess water quality conditions in Iowa for purposes of Section 305(b) reporting and to aid in developing the state's 303(d) list include:

- 1) Physical, chemical, and biological data from ambient fixed station water quality monitoring networks conducted by the IDNR and other agencies (e.g., the U.S. Geological Survey, the U.S. Army Corps of Engineers);
- 2) Data from water quality monitoring conducted by adjacent states on border rivers and waters flowing into the state;
- 3) Data from biological monitoring being conducted by the IDNR in cooperation with the University of Iowa Hygienic Laboratory;
- 4) Data from IDNR-sponsored monitoring of shallow natural lakes;
- 5) Data from the IDNR-sponsored statewide lake monitoring project conducted by the Iowa State University and the University of Iowa Hygienic Laboratory;
- 6) Data from monitoring of bacterial indicators in rivers and at beaches of publicly-owned lakes;
- 7) Data from programs to monitor fish tissue for toxic contaminants;
- 8) Reports of pollutant-caused fish kills;
- 9) Data from state-wide survey of freshwater mussels;
- 10) Data, when available, from public water supplies on the quality of raw and finished water;

- 11) Drinking water source assessments under Section 1453 of the Safe Drinking Water Act;
- 12) Data from special studies of water quality and aquatic communities;
- 13) Best professional judgment of the IDNR staff;
- 14) Results of volunteer monitoring (e.g., by IOWATER trained volunteers); and
- 15) Water related information received from the public.

Additionally, sources of all existing and readily available water quality related data and information to be considered specifically for developing the state's 303(d) list include, but are not limited to, the following:

- 1) Iowa's most recent 305(b) report;
- 2) CWA Section 319 nonpoint source assessments;
- 3) Dilution calculations, trend analyses, or predictive models for determining the physical, chemical, or biological integrity of streams, rivers, lakes, and estuaries; and
- 4) Water quality related data and water related information from local, state, territorial, or federal agencies (especially the U.S. Geological Survey's National Water Quality Assessment Program and National Stream Quality Accounting Network), tribal governments, members of the public, and academic institutions.

### **C. Coordination with Other States on the Mississippi and Missouri Rivers**

The EPA's *Guidance for 2006 Assessment, Listing and Reporting Requirements Pursuant to Sections 303(d), 305(b) and 314 of the Clean Water Act* contains recommendations on how states should handle shared waters with regard to the sharing of water quality data, assessment decisions for those shared waters, and accounting for the listing decision inconsistencies between states. The guidance further recommends that the EPA Regional offices and Interstate Commissions, where applicable, should assist in resolving inconsistencies among states with shared waters, where they arise.

The IDNR's 2016 assessment methodology specifically addresses the IDNR's coordination efforts with other state agencies regarding data assembly and evaluation for "border rivers and waters flowing into the state." Due to a 2004 interstate agreement (memorandum of understanding) developed by the Upper Mississippi River Basin Association's Water Quality Task Force, the IDNR implemented the uniform assessment reaches for the Iowa reach of the Upper Mississippi River that are consistent with assessment reaches used by the adjacent states of Wisconsin and Illinois. Data from water quality monitoring conducted by adjacent states on border rivers and waters flowing into the state include data from: South Dakota, Minnesota, Wisconsin, Illinois, Missouri, and Nebraska. Data from fixed-station ambient water quality monitoring programs were used for purposes of water quality assessments in Iowa. These continuing efforts will improve states' efforts to satisfy the requirements of CWA Sections 303(d) and 305(b) for data assembly and evaluation for border rivers and waters flowing into the state.

#### **IV. THE EPA'S ANALYSIS OF IOWA'S APPROACH TO LISTING WATERS FOR THE 2016 LIST**

The EPA is approving Iowa's 2016 CWA Section 303(d) List, based on the requirements of Section 303(d) of the CWA and 40 CFR § 130.7. The EPA's action is based on its analysis of whether the IDNR reasonably identified all water quality-limited segments requiring listing. In determining whether the IDNR reasonably identified all water quality-limited segments still needing a TMDL, the EPA first looked at the IDNR's use support determinations as documented in the state's ADB+ database.

The IDNR's 2016 assessment methodology identifies a general "cutoff date" as the end of calendar year 2014, for data collection in support of the IDNR's water quality data assessment. The EPA's guidance recognizes the appropriateness of a reasonable data collection cutoff date allowing states to initiate actual data assessment and list preparation. Data not considered for the 2016 assessment should be considered for the 2018 submission. Despite the application of a "cutoff date" by the IDNR for the development of the 2016 list, the IDNR considered data submitted as part of the state's public notice and comment period from April 14, 2017 through May 29, 2017. The EPA believes the IDNR complied with the requirements of federal regulations at 40 CFR § 130.7(b)(5) regarding the assembly and evaluation of all existing and readily available water quality-related data and information.

The 2016 assessment methodology also discusses the IDNR's treatment of water quality-related data collected more than five years prior to the current assessment period. Federal regulations and guidance recognize that, in some instances, older data might not reflect current water quality conditions. Where the state demonstrates "good cause" for not including older data in the derivation of its list, federal regulations at 40 CFR § 130.7(b)(6)(iv) provide for the state not including a water or waters on its list. However, a demonstration of "good cause" relies on the state showing that there are changes in condition in the watershed or water body which result in older data not being representative of current water quality status. According to the IDNR's 2016 methodology, recent water quality data have already been used for Section 305(b) assessments and thus have already been considered for Section 303(d) listings. There are no water bodies left off the list because the data were more than five years old. Also, a listed water body will not be removed from the state's Section 303(d) list simply because the data upon which the impairment was based have aged beyond five years.

To confirm that Iowa's CWA Section 303(d) List was developed in a manner compliant with the requirements at 40 C.F.R. Part 130.7 (regarding the assembly and evaluation of "all existing and readily available water quality-related data and information"), the EPA reviewed the information contained in the IDNR's ADB+ database for all waters listed in Iowa's Integrated Report Category 5 proposed for delisting.

#### **V. THE EPA'S ANALYSIS OF CHANGES TO THE IOWA CWA SECTION 303(d) LIST**

The EPA compared waters listed in Category 5 of the state's 2014 IR with waters listed in Category 5 of the state's 2016 IR to determine whether waters were removed from the list, pollutants identified as causing impairment were changed, or water body descriptions had changed. In each case, such changes could constitute a change to the state's CWA Section 303(d) List requiring the EPA's approval. As described earlier in this document, Iowa's 2016 CWA Section 303(d) List is a part of the state's IR. The IR format is consistent with the EPA's guidance and includes five categories of waters. Category 5 of the state's IR constitutes the state's 2016 CWA Section 303(d) List.

In its review of the state's 2016 list, the EPA has reviewed Iowa's description of the data and information the state relied upon in developing its list, its methodology for identifying water bodies and the IDNR's responses to public comment. In accordance with 40 CFR § 130.7(d)(2), the EPA is approving Iowa's 2016 CWA Section 303(d) List (Category 5 of their 2016 IR), consisting of a total of 608 water bodies with 768 water body/pollutant combinations.

Waters proposed by the IDNR for exclusion from Category 5 of Iowa's 2016 CWA Section 303(d) List or for changes in their listing status which could be considered as a change to the CWA Section 303(d) list (e.g., segment description changed, listed causal pollutant changed) are identified below.

As a result of the IDNR's changes to the list of water bodies which were modified or removed from Iowa's CWA Section 303(d) list, the EPA initiated its review of 36 water bodies to determine whether the IDNR had "good cause" for modifying or not including these waters on its 2016 CWA Section 303(d) List.

#### **A. Waters Removed by IDNR from Iowa's CWA Section 303(d) List and Approved by EPA**

The EPA is approving the modification to or removal of 36 water bodies from the state's CWA Section 303(d) List consistent with the requirements of federal regulations at 40 CFR 130.7(b)(6)(iv). Section 40 CFR 130.7(b)(6)(iv) provides for the exclusion of waters from the state's CWA Section 303(d) list. These regulations require that the state "demonstrate good cause" for not including water or waters on the list. The reasons for each delisting were included in the ADB submittal, and additional details were provided to the EPA in the form of a responsiveness summary prior to the final Section 303(d) list submittal. The following are the general reasons cited for removal of water bodies from the Section 303(d) list:

- A TMDL has been approved by the EPA which addresses the cause of impairment.
- The state review identified flaws in original listings, attributable to errors associated with segment identifiers, or the use of inapplicable criteria.
- An enforcement action has been undertaken to address the cause of a fish kill.
- The general condition caused by an underperforming facility has changed and a visual assessment has found the original narrative impairment had been corrected.
- New data shows the water body is meeting water quality standards.

The rationale supporting the removal of these 36 waters (38 water body/pollutant combinations) from the state's list can be grouped into four general categories and are also identified below. Some of the waters have multiple pollutants and/or multiple causes for delisting.

#### **1. Waters with Approved TMDLs, alternatives or not impaired by pollutant (eight waters)**

##### **a) TMDLs (five waters, listed by water body identification number)**

Five water body segments are being removed from the state's list because TMDLs have been developed for those waters and approved by the EPA. In each instance, a TMDL has been developed for the listed pollutant or condition or the IDNR and the EPA have agreed that the TMDL will address the listed pollutant or condition. For some waters, they continue to be listed in Iowa's Category 5 for another pollutant or condition, or they are listed in another Category within Iowa's IR based on other water

quality data. These waters are included in Table 1 with information regarding each TMDL described in the last column. Each water body and the rationale for moving it from Category 5 are listed below.

**Silver Creek (IA 01-TRK-0381\_0, now IA 01-TRK-192))** - Iowa previously listed Silver Creek as impaired for not meeting a passing score for its index of biological integrity. On July 11, 2012, the EPA approved an Iowa TMDL for biological integrity allocating loads for ammonia and sediment. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Silver Creek because it no longer requires the development of a TMDL for biological integrity, consistent with 40 CFR § 130.7(b). This water body is still listed for *Escherichia coli* and organic enrichment/low dissolved oxygen.

**Iowa Lake (IA 02-IOW-01150-L\_0, now IA 02-IOW-677)** - Iowa previously listed Iowa Lake as impaired for algae. On July 13, 2016, the EPA approved an Iowa TMDL for algae. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Iowa Lake because it no longer requires the development of a TMDL for algae, consistent with 40 CFR § 130.7(b). Iowa Lake is still listed for *Escherichia coli* and mercury in fish tissue.

**Bob White Lake (IA 05-CHA-00690-L\_0, now IA 05-CHA-1338)** - Iowa previously listed Bob White as impaired for turbidity. On January 28, 2002, the EPA had approved an Iowa TMDL for siltation. As such, these water body/pollutant pairs are appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Bob White Lake because it no longer requires the development of a TMDL for turbidity, consistent with 40 CFR 130.7(b). Bob White Lake is still listed for *Escherichia coli*, organic enrichment/low dissolved oxygen and algal growth.

**Lake Pahoja (IA 06-BSR-00280-L\_0, now IA 05-BSR-1532)** - Iowa previously listed Lake Pahoja as impaired for algae and pH. On September 22, 2016, the EPA approved an Iowa TMDL for algae and pH. As such, these water body/pollutant pairs are appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Lake Pahoja because it no longer requires the development of a TMDL for algae and pH, consistent with 40 CFR § 130.7(b). Lake Pahoja is still listed for *Escherichia coli*.

**Carter Lake (IA 06-WEM-00265-L\_0)** - Iowa previously listed Carter Lake as impaired for turbidity. On August 30, 2007, the EPA had approved an Iowa TMDL for turbidity. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Carter Lake because it no longer requires the development of a TMDL for turbidity, consistent with 40 CFR 130.7(b). Carter Lake is still listed for PCBs in fish tissue.

**b) Other pollution control requirements (two waters, listed by water body identification number)**

Two water bodies are being removed from the state's list because legal action has been taken and restitution has been sought for the fish kill which led to their listing. There have been no additional fish kills in these segments:

**Bear Creek (IA 01-NMQ-0140\_0, now IA 01-NMQ-108)** - Iowa previously listed Bear Creek as impaired because of fish kills. A responsible party was identified and restitution was sought and received for the results of the fish kill, caused by runoff from land-applied animal waste.

**Cedar Creek (IA 04-RAC-0160\_1, now IA 04-RAC-1819)** - Iowa previously listed Cedar Creek as impaired because of fish kills. A responsible party was identified and restitution was sought and received for the results of the fish kill, caused by runoff from land-applied animal waste.

**c) Water body impaired but not by a pollutant (one water, listed by water body identification number)**

**Jordan Creek (IA 05-NSH-0133\_0, now IA 05-NSH-1459)** – Iowa previously listed Jordan Creek as impaired by a low index of biological integrity. Examination of the assessment data by the state has shown that the underlying habitat was not consistent with that expected in the region in which the water body is located. As such, biological integrity cannot be held to the same level as if the habitat was available for the biological community. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Jordan Creek because it no longer requires the development of a TMDL for biological integrity as it is not impaired by a pollutant, consistent with 40 CFR §130.7(b).

**2. New Data Supports Change in Listing (26 waters, listed by water body identification number)**

Twenty-six water body segments are being removed from the state's list based on new water quality data which indicates the use is supported with regard to the previously specified pollutants:

**Central Park Lake (IA 01-MAQ-01580-L\_0, now IA 01-MAQ-38)** - Iowa previously listed Central Park Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *Escherichia coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Central Park Lake because it no longer requires the development of a TMDL for *Escherichia coli*, consistent with 40 CFR §130.7(b). Central Park Lake is still listed for algae.

**Upper Iowa River (IA 01-UIA-0110\_1, now IA 01-UIA-238)** - Iowa previously listed Upper Iowa River as being impaired due to a mercury in fish tissue. Follow-up monitoring data indicates the mercury levels in fish tissue in this water body has dropped below the concentration for impairment. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Upper Iowa River because it no longer requires the development of a TMDL for mercury in fish tissue, consistent with 40 CFR §130.7(b).

**Upper Iowa River (IA 01-UIA-0110\_2, now IA 01-UIA-239)** - Iowa previously listed Upper Iowa River as being impaired due to a mercury in fish tissue. Follow-up monitoring data indicates the mercury levels in fish tissue in this water body has dropped below the concentration for impairment. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Upper Iowa River because it no longer requires the development of a TMDL for mercury in fish tissue, consistent with 40 CFR §130.7(b). This water body is still listed for a loss of native mussel species.

**Bear Creek (IA 01-UIA-0170\_2, now IA 01-UIA-252)** - Iowa previously listed Bear Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Bear Creek because it no longer

requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This water body is still listed for *Escherichia coli*.

**East Fork Wapsipinicon River (IA 01-WPS-0190\_3, now IA 01-WPS-409)** - Iowa previously listed East Fork Wapsipinicon River as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the East Fork Wapsipinicon River because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

**Yellow River (IA 01-YEL-0080\_2, now IA 01-YEL-436)** – Iowa previously listed Yellow River as being impaired due to organic enrichment/low dissolved oxygen. Follow-up monitoring data indicates this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Yellow River because it no longer requires the development of a TMDL for organic enrichment/low dissolved oxygen, consistent with 40 CFR §130.7(b). This water body is still listed for a fish kill due to unknown toxicity

**Cedar River (IA 02-CED-0030\_3, now IA 02-CED-457)** - Iowa previously listed Cedar River as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Cedar River because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). This water body is still listed for a pH impairment.

**Otter Creek (IA 02-CED-0550\_0, now IA 02-CED-594)** - Iowa previously listed Otter Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Otter Creek because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This water body is still listed for *Escherichia coli*.

**Eldred Sherwood Lake (IA 02-IOW-03830-L\_0, now IA 02-IOW-773)** - Iowa previously listed Eldred Sherwood Lake as impaired for algae. Follow-up monitoring data indicates the algae concentrations in this water body have recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Eldred Sherwood Lake because it no longer requires the development of a TMDL for algae, consistent with 40 CFR 130.7(b). Eldred Sherwood Lake is still listed for *Escherichia coli*.

**Shell Rock River (IA 02-SHL-0010\_2, now IA 02-SHL-783)** - Iowa previously listed Shell Rock River as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Shell Rock River because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). This water body is still listed for mercury in fish tissue.

**Hawthorn Lake (IA 03-NSK-00250-L\_0, now IA 03-NSK-862)** - Iowa previously listed Hawthorn Lake as impaired for turbidity. Follow-up monitoring data indicates the turbidity in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List.



In today's action, the EPA is approving the delisting of Hawthorn Lake because it no longer requires the development of a TMDL for turbidity, consistent with 40 CFR 130.7(b). Hawthorn Lake is still listed for algal growth.

**Lotts Creek (IA 04-EDM-0041\_0, now IA 04-EDM-1836)** - Iowa previously listed Lotts Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Lotts Creek because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

**Des Moines River (IA 04-LDM-0020\_2, now IA 04-LDM-1011)** - Iowa previously listed Des Moines River as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Des Moines River because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b).

**Roberts Creek Lake (IA 04-LDM-00380-L\_0, now IA 04-LDM-1019)** - Iowa previously listed Roberts Creek Lake as impaired for algal growth. Follow-up monitoring data indicates the algae in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Roberts Creek Lake because it no longer requires the development of a TMDL for algae, consistent with 40 CFR 130.7(b). Roberts Creek Lake is still listed for turbidity.

**Easter Lake (IA 04-LDM-00490-L\_0, now IA 04-LDM-1024)** - Iowa previously listed Easter Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Easter Lake because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b).

**Red Haw Lake (IA 04-LDM-02296-L\_0, now IA 04-LDM-1073)** - Iowa previously listed Red Haw Lake as impaired by *Escherichia coli*. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for *E. coli*. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Red Haw Lake because it no longer requires the development of a TMDL for *E. coli*, consistent with 40 CFR §130.7(b). Red Haw Lake is still listed for mercury in fish tissue.

**West Lake (Osceola) (IA 04-LDM-02690-L\_0, now IA 04-LDM-1082)** – Iowa previously listed West Lake as being impaired due to organic enrichment/low dissolved oxygen. New monitoring data indicates this water body is attaining Iowa's EPA approved-WQS for dissolved oxygen. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the West Lake because it no longer requires the development of a TMDL for organic enrichment/low dissolved oxygen, consistent with 40 CFR §130.7(b).

**East Branch Boone River (IA 04-UDM-0266\_0, now IA 04-UDM-6368)** - Iowa previously listed East Branch Boone River as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the East

Branch Boone River because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

**Soldier Creek (IA 04-UDM-0290\_0, now IA 04-UDM-1277)** - Iowa previously listed Soldier Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Soldier Creek because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

**Thayer Lake (IA 05-GRA-01410-L\_0, now IA 05-GRA-1369)** - Iowa previously listed Thayer Lake as impaired for algal growth. Follow-up monitoring data indicates the algae in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Thayer Lake because it no longer requires the development of a TMDL for algae, consistent with 40 CFR 130.7(b). Thayer Lake is still listed for turbidity.

**Little Rock River (IA 06-BSR-0060\_1, now IA 06-BSR-1798)** - Iowa previously listed Little Rock River as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Little Rock River because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This water body is still listed for *Escherichia coli*.

**Otter Creek (IA 06-BSR-0070\_3, now IA 06-BSR-1544)** - Iowa previously listed Otter Creek as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the Otter Creek because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b).

**West Branch Floyd River (IA 06-FLO-0040\_0, now IA 06-FLO-1558)** - Iowa previously listed West Branch Floyd River as being impaired due to a fish kill. Follow-up monitoring data indicates the fish community in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of the West Branch Floyd River because it no longer requires the development of a TMDL for a fish kill, consistent with 40 CFR §130.7(b). This water body is still listed for a low index of biotic integrity.

**Little Sioux Park Lake (IA 06-LSR-00250-L\_0, now 06-LSR-1568)** - Iowa previously listed Little Sioux Park Lake as impaired for pH. Follow-up monitoring data indicates the pH level in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Little Sioux Park Lake because it no longer requires the development of a TMDL for pH, consistent with 40 CFR 130.7(b).

**Moorehead Park Pond (IA 06-LSR-00805-L\_0, now IA 06-LSR-1587)** - Iowa previously listed Moorehead Park Pond as impaired for pH. Follow-up monitoring data indicates the pH level in this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa's § 303(d) List. In today's action, the EPA is approving the delisting of Moorehead Park Pond because it no longer requires the development of a TMDL for pH, consistent with 40 CFR 130.7(b).

**Carter Lake (IA 06-WEM-00265-L\_0, now IA 06-WEM-1714)** – Iowa previously listed Carter Lake as being impaired due to organic enrichment/low dissolved oxygen. Follow-up monitoring data indicates this water body has recovered. As such, this water body/pollutant pair is appropriate for removal from Iowa’s § 303(d) List. In today’s action, the EPA is approving the delisting of the Carter Lake because it no longer requires the development of a TMDL for organic enrichment/low dissolved oxygen, consistent with 40 CFR §130.7(b). Carter Lake is still listed for PCBs in fish tissue.

### **3. Listing Error (two waters, listed by water body identification number)**

For these two water bodies an error was made in the assessment of information which led to the listing of these water bodies in Category 5 of the Iowa 2014 IR.

**Lake of the Hills (IA 01-NEM-00160-L\_0, now IA 01-NEM-68)** Iowa previously listed this water body as impaired by turbidity. Iowa’s analysis has determined that the turbidity data does not exceed the listing threshold. Iowa is delisting this segment from its 2016 §303(d) List. In today’s action, the EPA is approving the delisting of the Lake of the Hills because it no longer requires the development of a TMDL for turbidity, consistent with 40 CFR §130.7(b). Lake of the Hills is still listed for algal growth.

**Mosquito Creek (IA 06-WED-0020\_2, now IA 06-WED-1700)** – Iowa previously listed this water body as impaired by a low index of biological integrity. Review of this data has found that the samples were collected in a different segment of Mosquito Creek. That segment (IA 06-WED-0020\_1 now identified as 06-WED-1699) is now listed for low fish and invertebrate indices of biotic integrity. In today’s action, the EPA is approving the delisting of the Mosquito Creek because it no longer requires the development of a TMDL for a low index of biological integrity, consistent with 40 CFR §130.7(b).

### **4. Change in condition of cause (one water, listed by water body identification number)**

**Muddy Creek (IA 02-IOW-0162\_0, now IA 02-IOW-2043)** Iowa previously listed this water body as impaired due to sewage sludge/ammonia narrative criteria. Following an upgrade to the North Liberty Wastewater Treatment Plant water quality in the creek has improved. The data collected before and since the upgrade did not include ammonia but based on the parameters sampled, showed improvements to this water. The present condition has corrected the sewage sludge condition and is no longer applicable for assessment purposes. In today’s action, the EPA is approving the delisting of Muddy Creek because it no longer requires the development of a TMDL for ammonia, consistent with 40 CFR §130.7(b). This water body is still listed for *Escherichia coli*.

The EPA concludes that the state properly assembled and considered all existing and readily available data and information for the water bodies identified above, including all of the existing and readily available data and information relating to the categories of waters specified in 40 CFR §130.7(b)(5). Therefore, the EPA concludes that the state’s decision to delist the above waters identified in its listing submittal is consistent with federal listing requirements.

## **VI. PRIORITY RANKING IN IOWA’S CWA SECTION 303(d) LIST**

The IDNR’s listing methodology describes how the state will prioritize water bodies for purposes of establishing TMDLs. Iowa’s submission of its 2016 CWA Section 303(d) List included a priority ranking of each water body as required in Section 303(d)(1)(A) of the CWA and 40 CFR §130.7(b)(4) of the EPA’s implementing regulations.

## **VII. IOWA'S PUBLIC PARTICIPATION PROCESS**

The IDNR public noticed its 2016 draft CWA Section 303(d) List from April 14 through May 29, 2017. The list and the IDNR's ADB+ water quality database were also made available for public review and comment through the IDNR website. The IDNR received comments from the EPA and 16 individuals. A responsiveness summary was submitted by the state with its 2016 IR. The IDNR finalized its 2016 CWA Section 303(d) List and submitted it for approval on December 1, 2017 as an email attachment, a hard copy of the submittal letter and a DVD was also mailed; it was received by the EPA on December 4, 2017. The submittal letter stated that the electronic version was the official submittal.

The EPA has reviewed Iowa's public participation process and has concluded that the state provided adequate public notice and opportunity for the public to comment on its decision regarding the CWA Section 303(d) list in compliance with federal requirements.

## 2016 Iowa's Section 303(d) List

Table 1 lists each modification or water body approved for the removal from, the state's CWA Section 303(d) List and the supporting rationale for each. Table 2 identifies the 2016 Iowa § 303 (d) list as approved by the EPA. The following terms are used in the tables and defined below.

a.k.a.:	Also Known As
EPA	U.S. Environmental Protection Agency
FW Mussels:	Freshwater mussels
IBI:	Index of Biological Integrity
PCBs:	Polychlorinated biphenyl
pH:	A measure of water's acidity or basic condition.
TMDL:	Total Maximum Daily Load
UT:	Unnamed Tributary

Table 1. 2016 Delistings from the EPA-approved 2014 Iowa §303(d) List. For comparative purposes the ADB Code listed is that under which the water body was listed on the 2014 § 303(d) List

Water body Name	ADB Code	Cause of 2014 303(d) listing	De-listing rationale
Northeastern Iowa River Basins			
Central Park Lake	IA 01-MAQ-01580-L_0	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
Lake Of The Hills	IA 01-NEM-00160-L_0	TURBIDITY	MEETING WATER QUALITY STANDARDS
Bear Creek	IA 01-NMQ-0140_0	FISH KILL(S)	ENFORCEMENT ACTION TAKEN
Silver Creek	IA 01-TRK-0381_0	INDEX OF BIOLOGICAL INTEGRITY (IBI)	TMDL APPROVED BY THE EPA
Upper Iowa River	IA 01-UIA-01110_1	FISH CONSUMPTION ADVISORY - MERCURY	MEETING WATER QUALITY STANDARDS
Upper Iowa River	IA 01-UIA-01110_2	FISH CONSUMPTION ADVISORY - MERCURY	MEETING WATER QUALITY STANDARDS
Bear Creek	IA 01-UIA-0170_2	FISH KILL(S)	RECOVERY FROM FISH KILL
East Fork Wapsipinicon River	IA 01-WPS-0190_3	FISH KILL(S)	RECOVERY FROM FISH KILL
Yellow River	IA 01-YEL-0080_2	ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN	MEETING WATER QUALITY STANDARDS
Iowa-Cedar River Basin			
Cedar River	IA 02-CED-0030_3	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
Otter Creek	IA 02-CED-0550_0	FISH KILL(S)	RECOVERY FROM FISH KILL
Iowa Lake	IA 02-IOW-01150-L_0	ALGAE	TMDL APPROVED BY THE EPA

Muddy Creek	IA 02-IOW-0162_0	AMMONIA	UPGRADE FACILITY CAUSING IMPAIRMENT
Eldred Sherwood Lake	IA 02-IOW-03830-L_0	ALGAE	MEETING WATER QUALITY STANDARDS
Shell Rock River	IA 02-SHL-0010_2	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
Skunk River Basin			
Hawthorn Lake	IA 03-NSK-00250-L_0	TURBIDITY	MEETING WATER QUALITY STANDARDS
Des Moines River Basin			
Lotts Creek	IA 04-EDM-0041_0	FISH KILL(S)	RECOVERY FROM FISH KILL
Des Moines River	IA 04-LDM-0020_2	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
Roberts Creek Lake	IA 04-LDM-00380-L_0	ALGAE	MEETING WATER QUALITY STANDARDS
Easter Lake	IA 04-LDM-00490-L_0	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
Red Haw Lake	IA 04-LDM-02296-L_0	INDICATOR BACTERIA	MEETING WATER QUALITY STANDARDS
West Lake (Osceola)	IA 04-LDM-02690-L_0	ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN	MEETING WATER QUALITY STANDARDS
Cedar Creek	IA 04-RAC-0160_1	FISH KILL(S)	ENFORCEMENT ACTION TAKEN
East Branch Boone River	IA 04-UDM-0266_0	FISH KILL(S)	RECOVERY FROM FISH KILL

Soldier Creek	IA 04-UDM-0290_0	FISH KILL(S)	RECOVERY FROM FISH KILL
<b>Southern Iowa River Basins</b>			
Bob White Lake	IA 05-CHA-00690-L_0	TURBIDITY	TMDL APPROVED BY THE EPA
Thayer Lake	IA 05-GRA-01410-L_0	ALGAE	MEETING WATER QUALITY STANDARDS
Jordan Creek	IA 05-NSH-01133_0	INDEX OF BIOLOGICAL INTEGRITY (IBI)	NON-POLLUTANT
<b>Western Iowa River Basins</b>			
Lake Pahoja	IA 06-BSR-00280-L_0	ALGAE	TMDL APPROVED BY THE EPA
Lake Pahoja	IA 06-BSR-00280-L_0	PH	TMDL APPROVED BY THE EPA
Little Rock River	IA 06-BSR-0060_1	FISH KILL(S)	RECOVERY FROM FISH KILL
Otter Creek	IA 06-BSR-0070_3	FISH KILL(S)	RECOVERY FROM FISH KILL
West Branch Floyd River	IA 06-FLO-0040_0	FISH KILL(S)	RECOVERY FROM FISH KILL
Little Sioux Park Lake	IA 06-LSR-00250-L_0	PH	MEETING WATER QUALITY STANDARDS
Moorehead Park Pond	IA 06-LSR-00805-L_0	PH	MEETING WATER QUALITY STANDARDS
Mosquito Creek	IA 06-WED-0020_2	INDEX OF BIOLOGICAL INTEGRITY (IBI)	ASSESSMENT ERROR
Carter Lake	IA 06-WEM-00265-L_0	TURBIDITY	TMDL APPROVED BY THE EPA



Carter Lake	IA 06-WEM-00265-L_0	ORGANIC ENRICHMENT/LOW DISSOLVED OXYGEN	MEETING WATER QUALITY STANDARDS
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Table 2. EPA-approved 2016 Iowa § 303(d) List with crosswalk to new ADB codes

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	1	IA 01-MAQ-0005-L_0	01-MAQ-1	Shrickers Slough	Algal Growth: Chlorophyll a
	2	IA 01-MAQ-0005-L_0	01-MAQ-1	Shrickers Slough	Turbidity: Secchi Disk Transparency
	3	IA 01-MAQ-0010_1	01-MAQ-2	Rock Creek	Organic Enrichment: Low Dissolved Oxygen
	4	IA 01-MAQ-0050_2	01-MAQ-13	Maquoketa River	Bacteria: Indicator Bacteria, E. coli
	5	IA 01-MAQ-0060_1	01-MAQ-14	Maquoketa River	Biological: loss of native mussel species
	6	IA 01-MAQ-0060_2	01-MAQ-15	Maquoketa River	Bacteria: Indicator Bacteria, E. coli
	7	IA 01-MAQ-0060_2	01-MAQ-15	Maquoketa River	Biological: loss of native mussel species
	8	IA 01-MAQ-0060_3	01-MAQ-16	Maquoketa River	Bacteria: Indicator Bacteria, E. coli
	9	IA 01-MAQ-0060_3	01-MAQ-16	Maquoketa River	Biological: low aquatic macroinvertebrate IBI
	10	IA 01-MAQ-0080_0	01-MAQ-19	Maquoketa River	Bacteria: Indicator Bacteria, E. coli
	11	IA 01-MAQ-0090-L_0	01-MAQ-20	Backbone Lake	Bacteria: Indicator Bacteria, E. coli
	12	IA 01-MAQ-01580-L_0	01-MAQ-38	Central Park Lake	Algal Growth: Chlorophyll a
	13	IA 01-MAQ-0200_0	01-MAQ-44	Silver Creek	Biological: loss of native mussel species
	14	IA 01-MAQ-0210_0	01-MAQ-45	Buck Creek	Biological: loss of native mussel species
	15	IA 01-MAQ-0210_0	01-MAQ-45	Buck Creek	Biological: low aquatic macroinvertebrate IBI
	16	IA 01-MAQ-0220_1	01-MAQ-46	Plum Creek	Biological: loss of native mussel species
	17	IA 01-MAQ-0220_1	01-MAQ-46	Plum Creek	Biological: low aquatic macroinvertebrate IBI
	18	IA 01-MAQ-0240_0	01-MAQ-51	Coffins Creek	Bacteria: Indicator Bacteria, E. coli
	19	IA 01-MAQ-0250_0	01-MAQ-53	Honey Creek	Bacteria: Indicator Bacteria, E. coli
	20	IA 01-MAQ-0251_0	01-MAQ-6560	Honey Creek	Bacteria: Indicator Bacteria, E. coli
	21	IA 01-MAQ-0255_0	01-MAQ-6561	Rutherford Branch	Bacteria: Indicator Bacteria, E. coli
	22	IA 01-MAQ-0260_1	01-MAQ-54	Lindsey Creek	Bacteria: Indicator Bacteria, E. coli
yes	23	IA 01-MAQ-0300_0	01-MAQ-1963	Unnamed Tributary to Maquoketa River	Fish Kill: Caused By Fertilizer Spill
yes	24	IA 01-NEM-0010_1	01-NEM-61	Mississippi River	Bacteria: Indicator Bacteria, fecal coliform
yes	25	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Bacteria: Indicator Bacteria, fecal coliform
	26	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Metals: Aluminum

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
yes	27	IA 01-NEM-0010_2	01-NEM-62	Mississippi River	Toxic Organics: PCBs
yes	28	IA 01-NEM-0010_3	01-NEM-63	Mississippi River	Bacteria: Indicator Bacteria, fecal coliform
	29	IA 01-NEM-0010_4	01-NEM-64	Mississippi River	Metals: Aluminum
	30	IA 01-NEM-00160-L_0	01-NEM-68	Lake Of The Hills	Algal Growth: Chlorophyll a
	31	IA 01-NEM-0030_1	01-NEM-75	Mississippi River	Metals: Aluminum
	32	IA 01-NEM-0053_0	01-NEM-81	Mad Creek	Bacteria: Indicator Bacteria, E. coli
	33	IA 01-NEM-0063_0	01-NEM-6370	Stafford Creek	Bacteria: Indicator Bacteria, E. coli
	34	IA 01-NEM-0066_0	01-NEM-6372	Candlelight Creek	Bacteria: Indicator Bacteria, E. coli
	35	IA 01-NEM-0067_0	01-NEM-6373	Robin Creek	Bacteria: Indicator Bacteria, E. coli
yes	36	IA 01-NEM-0070_0	01-NEM-86	Crow Creek	Bacteria: Indicator Bacteria, E. coli
	37	IA 01-NMQ-0010_1	01-NMQ-88	North Fork Maquoketa River	Bacteria: Indicator Bacteria, E. coli
yes	38	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Bacteria: Indicator Bacteria, E. coli
	39	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Biological: loss of native mussel species
	40	IA 01-NMQ-0020_1	01-NMQ-90	North Fork Maquoketa River	Biological: low fish & invert IBIs, cause unknown
	41	IA 01-NMQ-0040_0	01-NMQ-94	Farmers Creek	Biological: low aquatic macroinvertebrate IBI
	42	IA 01-NMQ-0100_1	01-NMQ-103	Whitewater Creek	Bacteria: Indicator Bacteria, E. coli
	43	IA 01-NMQ-0100_1	01-NMQ-103	Whitewater Creek	Biological: loss of native mussel species
	44	IA 01-NMQ-0110_0	01-NMQ-105	Johns Creek	Biological: loss of native mussel species
	45	IA 01-NMQ-0141_0	01-NMQ-1886	Bear Creek	Fish Kill: Caused By Animal Waste
	46	IA 01-NMQ-0160_0	01-NMQ-110	Hickory Creek	Biological: low fish & invert IBIs, cause unknown
	47	IA 01-TRK-0090_1	01-TRK-121	Tetes Des Morts Creek	Fish Kill: Due To Unknown Toxicity
	48	IA 01-TRK-0090_1	01-TRK-121	Tetes Des Morts Creek	Biological: low aquatic macroinvertebrate IBI
	49	IA 01-TRK-0090_1	01-TRK-121	Tetes Des Morts Creek	Bacteria: Indicator Bacteria, E. coli
	50	IA 01-TRK-0090_2	01-TRK-122	Tetes Des Morts Creek	Bacteria: Indicator Bacteria, E. coli
	51	IA 01-TRK-0093_0	01-TRK-6580	Unnamed Tributary to Tetes Des Morts Creek	Bacteria: Indicator Bacteria, E. coli
	52	IA 01-TRK-0094_0	01-TRK-6589	Unnamed Tributary to Tetes Des Morts Creek	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	53	IA 01-TRK-0095_0	01-TRK-123	Lux Creek	Bacteria: Indicator Bacteria, E. coli
	54	IA 01-TRK-0100_1	01-TRK-124	Catfish Creek	Bacteria: Indicator Bacteria, E. coli
yes	55	IA 01-TRK-0100_2	01-TRK-125	Catfish Creek	Bacteria: Indicator Bacteria, E. coli
	56	IA 01-TRK-0100_2	01-TRK-125	Catfish Creek	Fish Kill: Due To Unknown Toxicity
	57	IA 01-TRK-01005_2	01-TRK-6408	Unnamed tributary to Catfish Creek	Wastewater
	58	IA 01-TRK-0110_0	01-TRK-127	Granger Creek	Bacteria: Indicator Bacteria, E. coli
	59	IA 01-TRK-0120_0	01-TRK-128	Middle Fork Catfish Creek	Bacteria: Indicator Bacteria, E. coli
	60	IA 01-TRK-0123_0	01-TRK-6487	Middle Fork Catfish Creek	Bacteria: Indicator Bacteria, E. coli
	61	IA 01-TRK-0125_0	01-TRK-129	North Fork Catfish Creek	Bacteria: Indicator Bacteria, E. coli
	62	IA 01-TRK-0127_0	01-TRK-6486	North Fork Catfish Creek	Bacteria: Indicator Bacteria, E. coli
	63	IA 01-TRK-0130_0	01-TRK-130	South Fork Catfish Creek	Bacteria: Indicator Bacteria, E. coli
yes	64	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Biological: low aquatic macroinvertebrate IBI
yes	65	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Organic Enrichment: Low Dissolved Oxygen
yes	66	IA 01-TRK-0160_1	01-TRK-134	Cloie Branch	Temperature: Water
	67	IA 01-TRK-0180_2	01-TRK-138	Middle Fork Little Maquoketa River (a.k.a. Bankston Cr.)	Biological: low aquatic macroinvertebrate IBI
	68	IA 01-TRK-0200_0	01-TRK-148	Turkey River	Bacteria: Indicator Bacteria, E. coli
	69	IA 01-TRK-0200_0	01-TRK-148	Turkey River	Fish Consumption Advisory: Mercury
yes	70	IA 01-TRK-0210_1	01-TRK-149	Turkey River	Bacteria: Indicator Bacteria, E. coli
	71	IA 01-TRK-0210_4	01-TRK-152	Turkey River	Bacteria: Indicator Bacteria, E. coli
	72	IA 01-TRK-0220_1	01-TRK-153	Turkey River	Bacteria: Indicator Bacteria, E. coli
yes	73	IA 01-TRK-0220_2	01-TRK-154	Turkey River	Bacteria: Indicator Bacteria, E. coli
	74	IA 01-TRK-0220_4	01-TRK-156	Turkey River	Bacteria: Indicator Bacteria, E. coli
	75	IA 01-TRK-0223_0	01-TRK-6562	Unnamed Tributary to Turkey River	pH, High
	76	IA 01-TRK-0230_1	01-TRK-160	Little Turkey River	Bacteria: Indicator Bacteria, E. coli
	77	IA 01-TRK-0230_3	01-TRK-162	Little Turkey River	Biological: low aquatic macroinvertebrate IBI
	78	IA 01-TRK-0230_3	01-TRK-162	Little Turkey River	Bacteria: Indicator Bacteria, E. coli
	79	IA 01-TRK-0230_4	01-TRK-163	Little Turkey River	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	80	IA 01-TRK-0240_0	01-TRK-165	Point Hollow Creek (aka White Pine Cr.)	Bacteria: Indicator Bacteria, E. coli
	81	IA 01-TRK-0240_0	01-TRK-165	Point Hollow Creek (aka White Pine Cr.)	Biological: low aquatic macroinvertebrate IBI
	82	IA 01-TRK-0260_0	01-TRK-168	Pecks Creek	Biological: low aquatic macroinvertebrate IBI
	83	IA 01-TRK-0260_0	01-TRK-168	Pecks Creek	Bacteria: Indicator Bacteria, E. coli
	84	IA 01-TRK-0270_1	01-TRK-171	South Cedar Creek (aka Cedar Cr.)	Bacteria: Indicator Bacteria, E. coli
	85	IA 01-TRK-0280_1	01-TRK-175	Elk Creek	Bacteria: Indicator Bacteria, E. coli
yes	86	IA 01-TRK-0290_0	01-TRK-178	Steeles Branch	Bacteria: Indicator Bacteria, E. coli
yes	87	IA 01-TRK-0291_0	01-TRK-6568	Steeles Branch	Bacteria: Indicator Bacteria, E. coli
yes	88	IA 01-TRK-0300_0	01-TRK-179	Pine Creek	Bacteria: Indicator Bacteria, E. coli
	89	IA 01-TRK-0360_1	01-TRK-186	Roberts Creek	Bacteria: Indicator Bacteria, E. coli
	90	IA 01-TRK-0360_3	01-TRK-188	Roberts Creek	Bacteria: Indicator Bacteria, E. coli
	91	IA 01-TRK-0370_1	01-TRK-189	Dry Mill Creek	Bacteria: Indicator Bacteria, E. coli
	92	IA 01-TRK-0380_0	01-TRK-191	Howard Creek	Bacteria: Indicator Bacteria, E. coli
	93	IA 01-TRK-0381_0	01-TRK-192	Silver Creek	Bacteria: Indicator Bacteria, E. coli
	94	IA 01-TRK-0381_0	01-TRK-192	Silver Creek	Organic Enrichment: Low Dissolved Oxygen
	95	IA 01-TRK-03817_0	01-TRK-2058	Unnamed Tributary to UT to Silver Creek	Bacteria: Indicator Bacteria, E. coli
	96	IA 01-TRK-03817_0	01-TRK-2058	Unnamed Tributary to UT to Silver Creek	Toxic Inorganics: Ammonia
	97	IA 01-TRK-0382_0	01-TRK-2057	Silver Creek	Bacteria: Indicator Bacteria, E. coli
	98	IA 01-TRK-0390_1	01-TRK-198	Otter Creek	Bacteria: Indicator Bacteria, E. coli
	99	IA 01-TRK-0390_1	01-TRK-198	Otter Creek	Temperature: Thermal Modifications
yes	100	IA 01-TRK-0412_1	01-TRK-202	Dibble Creek	Bacteria: Indicator Bacteria, E. coli
	101	IA 01-TRK-0416_0	01-TRK-205	Nutting Creek	Bacteria: Indicator Bacteria, E. coli
	102	IA 01-TRK-0419_0	01-TRK-2002	Dry Branch	Bacteria: Indicator Bacteria, E. coli
	103	IA 01-TRK-0420_0	01-TRK-207	Little Turkey River	Bacteria: Indicator Bacteria, E. coli
	104	IA 01-TRK-0430_1	01-TRK-208	Little Turkey River	Bacteria: Indicator Bacteria, E. coli
	105	IA 01-TRK-0430_2	01-TRK-209	Little Turkey River	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	106	IA 01-TRK-0440_1	01-TRK-210	Crane Creek	Bacteria: Indicator Bacteria, E. coli
	107	IA 01-TRK-0440_2	01-TRK-211	Crane Creek	Bacteria: Indicator Bacteria, E. coli
	108	IA 01-TRK-0440_3	01-TRK-212	Crane Creek	Bacteria: Indicator Bacteria, E. coli
	109	IA 01-TRK-0440_4	01-TRK-213	Crane Creek	Biological: low aquatic macroinvertebrate IBI
	110	IA 01-TRK-0450_1	01-TRK-215	Bass Creek	Bacteria: Indicator Bacteria, E. coli
	111	IA 01-TRK-0450_1	01-TRK-215	Bass Creek	Temperature: Thermal Modifications
	112	IA 01-TRK-04515_0	01-TRK-1885	Unnamed Tributary to Bass Creek	Fish Kill: Caused By Animal Waste
	113	IA 01-TRK-0453_0	01-TRK-217	Brockamp Creek	Bacteria: Indicator Bacteria, E. coli
	114	IA 01-TRK-0455_0	01-TRK-218	Rogers Creek	Bacteria: Indicator Bacteria, E. coli
	115	IA 01-TRK-0457_1	01-TRK-219	Wonder Creek	Bacteria: Indicator Bacteria, E. coli
	116	IA 01-TRK-0460_0	01-TRK-221	Bohemian Creek	Temperature: Thermal Modifications
	117	IA 01-TRK-0460_0	01-TRK-221	Bohemian Creek	Bacteria: Indicator Bacteria, E. coli
	118	IA 01-TRK-0480_0	01-TRK-223	North Branch Turkey River	Bacteria: Indicator Bacteria, E. coli
	119	IA 01-UIA-0090_0	01-UIA-236	Upper Iowa River	Bacteria: Indicator Bacteria, E. coli
	120	IA 01-UIA-0090_0	01-UIA-236	Upper Iowa River	Fish Consumption Advisory: Mercury
	121	IA 01-UIA-0100_0	01-UIA-237	Upper Iowa River	Bacteria: Indicator Bacteria, E. coli
	122	IA 01-UIA-0100_0	01-UIA-237	Upper Iowa River	Fish Consumption Advisory: Mercury
	123	IA 01-UIA-0110_2	01-UIA-239	Upper Iowa River	Bacteria: Indicator Bacteria, E. coli
	124	IA 01-UIA-0110_2	01-UIA-239	Upper Iowa River	Biological: loss of native mussel species
	125	IA 01-UIA-0120_1	01-UIA-241	Upper Iowa River	Biological: loss of native mussel species
	126	IA 01-UIA-0120_1	01-UIA-241	Upper Iowa River	Bacteria: Indicator Bacteria, E. coli
	127	IA 01-UIA-0130_0	01-UIA-247	Irish Hollow Creek	Biological: low aquatic macroinvertebrate IBI
yes	128	IA 01-UIA-0135_0	01-UIA-6437	Clark Creek	Fish Kill: Caused By Animal Waste
	129	IA 01-UIA-0140_0	01-UIA-248	French Creek	Bacteria: Indicator Bacteria, E. coli
	130	IA 01-UIA-0150_0	01-UIA-249	Clear Creek	Bacteria: Indicator Bacteria, E. coli
	131	IA 01-UIA-0160_0	01-UIA-250	Silver Creek	Bacteria: Indicator Bacteria, E. coli
	132	IA 01-UIA-0170_1	01-UIA-251	Bear Creek	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
yes	133	IA 01-UIA-0170_2	01-UIA-252	Bear Creek (aka South Bear Creek)	Bacteria: Indicator Bacteria, E. coli
	134	IA 01-UIA-0180_0	01-UIA-253	Waterloo Creek	Bacteria: Indicator Bacteria, E. coli
	135	IA 01-UIA-0182_0	01-UIA-6570	Unnamed Tributary to Waterloo Creek	Bacteria: Indicator Bacteria, E. coli
	136	IA 01-UIA-0185_0	01-UIA-254	Duck Creek	Bacteria: Indicator Bacteria, E. coli
	137	IA 01-UIA-0190_0	01-UIA-255	North Bear Creek	Bacteria: Indicator Bacteria, E. coli
	138	IA 01-UIA-0210_0	01-UIA-257	Paint Creek (aka Pine Cr.)	Bacteria: Indicator Bacteria, E. coli
	139	IA 01-UIA-0230_0	01-UIA-259	Patterson Creek	Bacteria: Indicator Bacteria, E. coli
	140	IA 01-UIA-0240_1	01-UIA-260	Canoe Creek	Bacteria: Indicator Bacteria, E. coli
	141	IA 01-UIA-0270_0	01-UIA-265	Coon Creek	Bacteria: Indicator Bacteria, E. coli
	142	IA 01-UIA-0280_1	01-UIA-266	Trout Creek	Bacteria: Indicator Bacteria, E. coli
	143	IA 01-UIA-0300_1	01-UIA-269	Trout Creek (aka Trout Run)	Bacteria: Indicator Bacteria, E. coli
yes	144	IA 01-UIA-0300_1	01-UIA-269	Trout Creek (aka Trout Run)	Biological: low aquatic macroinvertebrate IBI
	145	IA 01-UIA-0304_0	01-UIA-6596	Siewers Spring	Bacteria: Indicator Bacteria, E. coli
	146	IA 01-UIA-0320_0	01-UIA-272	Dry Run	Temperature: Thermal Modifications
	147	IA 01-UIA-0320_0	01-UIA-272	Dry Run	Bacteria: Indicator Bacteria, E. coli
	148	IA 01-UIA-0321_0	01-UIA-6552	Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	149	IA 01-UIA-0322_0	01-UIA-6600	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	150	IA 01-UIA-0323_0	01-UIA-6554	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	151	IA 01-UIA-0324_0	01-UIA-6555	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	152	IA 01-UIA-0325_0	01-UIA-6556	Unnamed Tributary to Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	153	IA 01-UIA-0326_0	01-UIA-6557	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	154	IA 01-UIA-0327_0	01-UIA-6558	Unnamed Tributary to Dry Run Creek	Bacteria: Indicator Bacteria, E. coli
	155	IA 01-UIA-0330_0	01-UIA-273	Twin Springs Creek	Bacteria: Indicator Bacteria, E. coli
	156	IA 01-UIA-0340_0	01-UIA-274	Ten Mile Creek	Biological: low aquatic macroinvertebrate IBI

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	157	IA 01-UIA-0340_0	01-UIA-274	Ten Mile Creek	Bacteria: Indicator Bacteria, E. coli
	158	IA 01-UIA-0350_0	01-UIA-275	Unnamed Creek (aka Casey Spring Cr.)	Bacteria: Indicator Bacteria, E. coli
	159	IA 01-UIA-0370_0	01-UIA-278	Pine Creek	Bacteria: Indicator Bacteria, E. coli
	160	IA 01-UIA-0380_0	01-UIA-279	East Pine Creek	Biological: low aquatic macroinvertebrate IBI
	161	IA 01-UIA-0390_0	01-UIA-280	Unnamed Creek (aka Cold Water Cr.)	Bacteria: Indicator Bacteria, E. coli
	162	IA 01-UIA-0403_0	01-UIA-282	Silver Creek	Bacteria: Indicator Bacteria, E. coli
	163	IA 01-UIA-0404_0	01-UIA-6569	Unnamed Tributary to Silver Creek	Bacteria: Indicator Bacteria, E. coli
	164	IA 01-UIA-0407_0	01-UIA-283	Minor Creek	Bacteria: Indicator Bacteria, E. coli
	165	IA 01-UIA-0410_0	01-UIA-284	Nichols Creek (aka Bigalk Cr.)	Temperature: Thermal Modifications
	166	IA 01-UIA-0410_0	01-UIA-284	Nichols Creek (aka Bigalk Cr.)	Bacteria: Indicator Bacteria, E. coli
	167	IA 01-UIA-0420_1	01-UIA-286	Beaver Creek	Temperature: Thermal Modifications
	168	IA 01-UIA-0420_1	01-UIA-286	Beaver Creek	Bacteria: Indicator Bacteria, E. coli
	169	IA 01-UIA-0430_0	01-UIA-288	Staff Creek	Bacteria: Indicator Bacteria, E. coli
	170	IA 01-UIA-0440_0	01-UIA-6597	Unnamed Tributary to Upper Iowa River	Bacteria: Indicator Bacteria, E. coli
	171	IA 01-VOL-0010_3	01-VOL-291	Volga River	Fish Consumption Advisory: Mercury
	172	IA 01-VOL-0020_1	01-VOL-294	Volga River	Fish Consumption Advisory: Mercury
	173	IA 01-VOL-0020_2	01-VOL-295	Volga River	Fish Consumption Advisory: Mercury
	174	IA 01-VOL-0020_3	01-VOL-296	Volga River	Bacteria: Indicator Bacteria, E. coli
	175	IA 01-VOL-0030_1	01-VOL-297	Bear Creek	Bacteria: Indicator Bacteria, E. coli
	176	IA 01-VOL-0070_1	01-VOL-303	Cox Creek (aka Alderson Hollow)	Bacteria: Indicator Bacteria, E. coli
yes	177	IA 01-VOL-0070_2	01-VOL-304	Cox Creek (aka Alderson Hollow)	Biological: low aquatic macroinvertebrate IBI
	178	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Temperature: Thermal Modifications
	179	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Bacteria: Indicator Bacteria, E. coli
yes	180	IA 01-VOL-0090_0	01-VOL-307	Hewett Creek	Biological: low aquatic macroinvertebrate IBI
	181	IA 01-VOL-0110_1	01-VOL-314	Mink Creek	Bacteria: Indicator Bacteria, E. coli
yes	182	IA 01-VOL-0120_1	01-VOL-317	Brush Creek	Bacteria: Indicator Bacteria, E. coli



New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	183	IA 01-VOL-0120_2	01-VOL-318	Brush Creek	Biological: low aquatic macroinvertebrate IBI
	184	IA 01-VOL-0140_0	01-VOL-322	Grannis Creek	Bacteria: Indicator Bacteria, E. coli
	185	IA 01-VOL-0146_0	01-VOL-325	Unnamed Creek (aka Volga Lake Outlet)	Bacteria: Indicator Bacteria, E. coli
	186	IA 01-VOL-0150_1	01-VOL-328	Little Volga River	Fish Consumption Advisory: Mercury
	187	IA 01-VOL-0150_1	01-VOL-328	Little Volga River	Bacteria: Indicator Bacteria, E. coli
	188	IA 01-VOL-0160_0	01-VOL-330	North Branch Volga River	Fish Consumption Advisory: Mercury
	189	IA 01-VOL-0160_0	01-VOL-330	North Branch Volga River	Bacteria: Indicator Bacteria, E. coli
	190	IA 01-WPS-0010_1	01-WPS-332	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	191	IA 01-WPS-0010_2	01-WPS-333	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	192	IA 01-WPS-0010_4	01-WPS-335	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	193	IA 01-WPS-0010_5	01-WPS-336	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	194	IA 01-WPS-0020_1	01-WPS-340	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	195	IA 01-WPS-0020_4	01-WPS-343	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	196	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Biological: low Biological Integrity
	197	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Bacteria: Indicator Bacteria, E. coli
	198	IA 01-WPS-0030_5	01-WPS-354	Wapsipinicon River	Fish Kill: Due To Unknown Toxicity
	199	IA 01-WPS-00375-L_0	01-WPS-356	Lake Hendricks	Algal Growth: Chlorophyll a
	200	IA 01-WPS-00375-L_0	01-WPS-356	Lake Hendricks	pH
	201	IA 01-WPS-0050_1	01-WPS-358	Brophy Creek	Biological: low aquatic macroinvertebrate IBI
	202	IA 01-WPS-0109_0	01-WPS-372	Walnut Creek	Fish Kill: Caused By Animal Waste
	203	IA 01-WPS-0132_0	01-WPS-380	East Branch Buffalo Creek	Organic Enrichment: Low Dissolved Oxygen
	204	IA 01-WPS-0153_0	01-WPS-394	Unnamed Creek (near Hazleton)	Fish Kill: Caused By Animal Waste
	205	IA 01-WPS-0190_2	01-WPS-408	East Fork Wapsipinicon River	Biological: low fish & invert IBIs, cause unknown
	206	IA 01-WPS-0237_0	01-WPS-6457	unnamed tributary to Lake Hendricks	Bacteria: Indicator Bacteria, E. coli
	207	IA 01-YEL-0010_2	01-YEL-427	Miners Creek	Biological: low aquatic macroinvertebrate IBI
	208	IA 01-YEL-0060_0	01-YEL-433	Bloody Run	Bacteria: Indicator Bacteria, E. coli
	209	IA 01-YEL-0080_1	01-YEL-435	Yellow River	Biological: low fish IBI

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	210	IA 01-YEL-0080_2	01-YEL-436	Yellow River	Fish Kill: Due To Unknown Toxicity
	211	IA 01-YEL-0080_3	01-YEL-437	Yellow River	Biological: low fish IBI
	212	IA 01-YEL-0080_3	01-YEL-437	Yellow River	pH
	213	IA 01-YEL-0081_0	01-YEL-2060	Yellow River	pH
	214	IA 01-YEL-0085_0	01-YEL-6574	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria, E. coli
	215	IA 01-YEL-0085_0	01-YEL-6574	Unnamed Tributary to Yellow River	pH
	216	IA 01-YEL-0090_0	01-YEL-438	Dousman Creek	Organic Enrichment: Low Dissolved Oxygen
yes	217	IA 01-YEL-0100_0	01-YEL-439	Suttle Creek	Biological: low aquatic macroinvertebrate IBI
	218	IA 01-YEL-0100_0	01-YEL-439	Suttle Creek	Organic Enrichment: Low Dissolved Oxygen
	219	IA 01-YEL-0110_0	01-YEL-440	Unnamed Creek (aka Bear Cr.)	Organic Enrichment: Low Dissolved Oxygen
	220	IA 01-YEL-0120_1	01-YEL-441	Hickory Creek	Organic Enrichment: Low Dissolved Oxygen
	221	IA 01-YEL-0130_0	01-YEL-444	Norfolk Creek	Organic Enrichment: Low Dissolved Oxygen
	222	IA 01-YEL-0150_0	01-YEL-446	Unnamed Creek (aka, Ludlow Creek)	Biological: low fish & invert IBIs, cause unknown
	223	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Biological: low fish IBI
yes	224	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Fish Kill: Due To Unknown Toxicity
	225	IA 01-YEL-0155_0	01-YEL-447	Unnamed Creek (aka Hecker Cr.)	Dissolved Solids: Chloride
	226	IA 01-YEL-0160_0	01-YEL-448	North Fork Yellow River	Organic Enrichment: Low Dissolved Oxygen
yes	227	IA 01-YEL-0161_0	01-YEL-2005	North Fork Yellow River	Bacteria: Indicator Bacteria, E. coli
	228	IA 01-YEL-0170_0	01-YEL-2059	Unnamed Tributary to Yellow River	pH
	229	IA 01-YEL-0170_0	01-YEL-2059	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria, E. coli
	230	IA 01-YEL-0172_0	01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	pH
	231	IA 01-YEL-0172_0	01-YEL-6575	Unnamed Tributary to Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria, E. coli
	232	IA 01-YEL-0173_0	01-YEL-6582	Unnamed Tributary to Yellow River	pH
	233	IA 01-YEL-0173_0	01-YEL-6582	Unnamed Tributary to Yellow River	Bacteria: Indicator Bacteria, E. coli
	234	IA 02-CED-0010_0	02-CED-449	Cedar River	pH
	235	IA 02-CED-0010_0	02-CED-449	Cedar River	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	236	IA 02-CED-0020_2	02-CED-451	Cedar River	Biological: loss of native mussel species
	237	IA 02-CED-0030_2	02-CED-456	Cedar River	pH
	238	IA 02-CED-0030_3	02-CED-457	Cedar River	pH
	239	IA 02-CED-00310-L_0	02-CED-459	Pleasant Creek Lake	Bacteria: Indicator Bacteria, E. coli
	240	IA 02-CED-0040_2	02-CED-462	Cedar River	Bacteria: Indicator Bacteria, E. coli
	241	IA 02-CED-00460-L_0	02-CED-463	Meyers Lake	Algal Growth: Chlorophyll a
	242	IA 02-CED-0060_1	02-CED-469	Cedar River	Bacteria: Indicator Bacteria, E. coli
	243	IA 02-CED-0060_2	02-CED-470	Cedar River	Bacteria: Indicator Bacteria, E. coli
	244	IA 02-CED-0070_0	02-CED-472	Cedar River	Bacteria: Indicator Bacteria, E. coli
	245	IA 02-CED-0110_1	02-CED-477	Cedar River	Bacteria: Indicator Bacteria, E. coli
	246	IA 02-CED-0110_1	02-CED-477	Cedar River	Fish Consumption Advisory: Mercury
	247	IA 02-CED-0110_2	02-CED-478	Cedar River	Fish Consumption Advisory: Mercury
	248	IA 02-CED-0110_3	02-CED-479	Cedar River	Fish Consumption Advisory: Mercury
	249	IA 02-CED-0115_0	02-CED-6593	Willow Creek	Bacteria: Indicator Bacteria, E. coli
	250	IA 02-CED-01545_0	02-CED-6262	Unnamed Tributary to West Branch Wapsinonoc Creek (aka Hoover Creek)	Bacteria: Indicator Bacteria, E. coli
	251	IA 02-CED-0157_1	02-CED-485	Pike Run	Biological: low aquatic macroinvertebrate IBI
	252	IA 02-CED-0157_2	02-CED-486	Pike Run	Biological: low fish & invert IBIs, cause unknown
	253	IA 02-CED-0170_1	02-CED-489	Sugar Creek	Biological: low aquatic macroinvertebrate IBI
	254	IA 02-CED-0210_1	02-CED-504	Indian Creek	Bacteria: Indicator Bacteria, E. coli
	255	IA 02-CED-0210_1	02-CED-504	Indian Creek	Biological: low aquatic macroinvertebrate IBI
	256	IA 02-CED-0210_2	02-CED-505	Indian Creek	Bacteria: Indicator Bacteria, E. coli
	257	IA 02-CED-0217_0	02-CED-507	Dry Creek	Bacteria: Indicator Bacteria, E. coli
	258	IA 02-CED-0218_0	02-CED-508	McLoud Run	Bacteria: Indicator Bacteria, E. coli
	259	IA 02-CED-0218_0	02-CED-508	McLoud Run	Fish Kill: Caused By Chlorine
yes	260	IA 02-CED-0218_0	02-CED-508	McLoud Run	Fish Kill: Due To Unknown Toxicity
	261	IA 02-CED-0227_0	02-CED-513	Morgan Creek	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	262	IA 02-CED-0230_0	02-CED-514	Otter Creek	Bacteria: Indicator Bacteria, E. coli
	263	IA 02-CED-0231_0	02-CED-517	Bear Creek	Bacteria: Indicator Bacteria, E. coli
	264	IA 02-CED-0233_0	02-CED-518	Blue Creek	Bacteria: Indicator Bacteria, E. coli
	265	IA 02-CED-0234_0	02-CED-1880	East Branch Blue Creek	Fish Kill: Caused By Fertilizer Spill
	266	IA 02-CED-0235_0	02-CED-519	Mud Creek	Bacteria: Indicator Bacteria, E. coli
	267	IA 02-CED-0260_0	02-CED-523	Bear Creek	Bacteria: Indicator Bacteria, E. coli
	268	IA 02-CED-0270_1	02-CED-524	Lime Creek	Bacteria: Indicator Bacteria, E. coli
	269	IA 02-CED-0270_2	02-CED-525	Lime Creek	Bacteria: Indicator Bacteria, E. coli
	270	IA 02-CED-0275_0	02-CED-6432	Unnamed Tributary to Lime Creek	Bacteria: Indicator Bacteria, E. coli
	271	IA 02-CED-0300_0	02-CED-530	Wolf Creek	Bacteria: Indicator Bacteria, E. coli
	272	IA 02-CED-0370_2	02-CED-546	Black Hawk Creek	Biological: low aquatic macroinvertebrate IBI
	273	IA 02-CED-0370_2	02-CED-546	Black Hawk Creek	Bacteria: Indicator Bacteria, E. coli
	274	IA 02-CED-0380_0	02-CED-550	Black Hawk Creek	Bacteria: Indicator Bacteria, E. coli
	275	IA 02-CED-0383_0	02-CED-551	North Black Hawk Creek	Bacteria: Indicator Bacteria, E. coli
	276	IA 02-CED-03833_0	02-CED-6489	Mosquito Creek	Bacteria: Indicator Bacteria, E. coli
	277	IA 02-CED-03835_0	02-CED-6490	Minnehaha Creek	Bacteria: Indicator Bacteria, E. coli
	278	IA 02-CED-0385_0	02-CED-552	Holland Creek	Bacteria: Indicator Bacteria, E. coli
	279	IA 02-CED-03855_0	02-CED-6491	Holland Creek	Bacteria: Indicator Bacteria, E. coli
	280	IA 02-CED-0390_0	02-CED-554	Dry Run	Bacteria: Indicator Bacteria, E. coli
	281	IA 02-CED-0390_0	02-CED-554	Dry Run	Biological: low fish & invert IBIs, cause unknown
	282	IA 02-CED-0391_0	02-CED-2062	Dry Run (South Branch)	Bacteria: Indicator Bacteria, E. coli
	283	IA 02-CED-0392_0	02-CED-2063	Dry Run (North Branch)	Bacteria: Indicator Bacteria, E. coli
	284	IA 02-CED-0393_0	02-CED-6293	Dry Run	Bacteria: Indicator Bacteria, E. coli
	285	IA 02-CED-0394_0	02-CED-6294	Unnamed Tributary to Dry Run	Bacteria: Indicator Bacteria, E. coli
	286	IA 02-CED-0400_0	02-CED-555	Beaver Creek	Bacteria: Indicator Bacteria, E. coli
	287	IA 02-CED-0410_2	02-CED-557	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
	288	IA 02-CED-0470_1	02-CED-574	Little Cedar River	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	289	IA 02-CED-0490_1	02-CED-580	Burr Oak Creek	Biological: low aquatic macroinvertebrate IBI
yes	290	IA 02-CED-0490_2	02-CED-581	Burr Oak Creek	Biological: low aquatic macroinvertebrate IBI
yes	291	IA 02-CED-0500_0	02-CED-582	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
	292	IA 02-CED-0510_1	02-CED-585	Rock Creek	Bacteria: Indicator Bacteria, E. coli
yes	293	IA 02-CED-0510_2	02-CED-586	Rock Creek	Bacteria: Indicator Bacteria, E. coli
	294	IA 02-CED-0510_3	02-CED-587	Rock Creek	Bacteria: Indicator Bacteria, E. coli
yes	295	IA 02-CED-0510_4	02-CED-588	Rock Creek	Bacteria: Indicator Bacteria, E. coli
	296	IA 02-CED-0520_0	02-CED-589	Spring Creek	Bacteria: Indicator Bacteria, E. coli
	297	IA 02-CED-0521_0	02-CED-6566	Spring Creek	Bacteria: Indicator Bacteria, E. coli
	298	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Bacteria: Indicator Bacteria, E. coli
	299	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Organic Enrichment: Low Dissolved Oxygen
	300	IA 02-CED-0522_0	02-CED-6567	Unnamed Tributary to Spring Creek	Toxic Inorganics: Ammonia
	301	IA 02-CED-0525_0	02-CED-6565	Slough Creek	Bacteria: Indicator Bacteria, E. coli
	302	IA 02-CED-0530_0	02-CED-590	Turtle Creek	Bacteria: Indicator Bacteria, E. coli
	303	IA 02-CED-0540_1	02-CED-591	Deer Creek	Bacteria: Indicator Bacteria, E. coli
	304	IA 02-CED-0550_0	02-CED-594	Otter Creek	Bacteria: Indicator Bacteria, E. coli
	305	IA 02-CED-0551_0	02-CED-6594	Unnamed Tributary to Cedar River	Bacteria: Indicator Bacteria, E. coli
yes	306	IA 02-ICD-0027_0	02-ICD-602	Big Hollow Creek	Fish Kill: Caused By Other
yes	307	IA 02-ICD-00275-L_0	02-ICD-6496	Big Hollow Lake	Algal Growth: Chlorophyll a
yes	308	IA 02-ICD-00275-L_0	02-ICD-6496	Big Hollow Lake	pH
	309	IA 02-ICD-0031_1	02-ICD-605	Cottonwood Drain	Biological: low fish & invert IBIs, cause unknown
	310	IA 02-ICM-0010_2	02-ICM-619	Mississippi River	Metals: Aluminum
	311	IA 02-IOW-0010_1	02-IOW-621	Iowa River	Bacteria: Indicator Bacteria, E. coli
	312	IA 02-IOW-0010_2	02-IOW-622	Iowa River	Bacteria: Indicator Bacteria, E. coli
	313	IA 02-IOW-0010_3	02-IOW-623	Iowa River	Bacteria: Indicator Bacteria, E. coli
	314	IA 02-IOW-0020_1	02-IOW-624	Iowa River	Bacteria: Indicator Bacteria, E. coli
	315	IA 02-IOW-0020_1	02-IOW-624	Iowa River	Biological: loss of native mussel species

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	316	IA 02-IOW-0030_1	02-IOW-627	Iowa River	Bacteria: Indicator Bacteria, E. coli
	317	IA 02-IOW-00390-L_0	02-IOW-629	Lake Macbride	Algal Growth: Chlorophyll a
	318	IA 02-IOW-00390-L_0	02-IOW-629	Lake Macbride	Bacteria: Indicator Bacteria, E. coli
	319	IA 02-IOW-0040-L_0	02-IOW-630	Coralville Reservoir	Turbidity
	320	IA 02-IOW-0050_1	02-IOW-633	Iowa River	Bacteria: Indicator Bacteria, E. coli
	321	IA 02-IOW-0050_1	02-IOW-633	Iowa River	Fish Consumption Advisory: Mercury
	322	IA 02-IOW-0050_2	02-IOW-634	Iowa River	Fish Consumption Advisory: Mercury
	323	IA 02-IOW-0050_3	02-IOW-635	Iowa River	Fish Consumption Advisory: Mercury
	324	IA 02-IOW-0060_1	02-IOW-638	Iowa River	Fish Consumption Advisory: Mercury
	325	IA 02-IOW-0060_2	02-IOW-639	Iowa River	Fish Consumption Advisory: Mercury
yes	326	IA 02-IOW-0060_3	02-IOW-640	Iowa River	Bacteria: Indicator Bacteria, E. coli
	327	IA 02-IOW-0060_3	02-IOW-640	Iowa River	Fish Consumption Advisory: Mercury
	328	IA 02-IOW-0060_4	02-IOW-641	Iowa River	Bacteria: Indicator Bacteria, E. coli
	329	IA 02-IOW-0060_4	02-IOW-641	Iowa River	Fish Consumption Advisory: Mercury
	330	IA 02-IOW-0060_5	02-IOW-642	Iowa River	Bacteria: Indicator Bacteria, E. coli
	331	IA 02-IOW-0060_5	02-IOW-642	Iowa River	Fish Consumption Advisory: Mercury
	332	IA 02-IOW-0070_1	02-IOW-644	Iowa River	Fish Consumption Advisory: Mercury
	333	IA 02-IOW-0070_2	02-IOW-645	Iowa River	Fish Consumption Advisory: Mercury
	334	IA 02-IOW-0070_3	02-IOW-646	Iowa River	Bacteria: Indicator Bacteria, E. coli
	335	IA 02-IOW-0070_3	02-IOW-646	Iowa River	Fish Consumption Advisory: Mercury
	336	IA 02-IOW-0070_4	02-IOW-647	Iowa River	Fish Consumption Advisory: Mercury
	337	IA 02-IOW-0070_5	02-IOW-648	Iowa River	Fish Consumption Advisory: Mercury
	338	IA 02-IOW-0080_2	02-IOW-651	Iowa River	Bacteria: Indicator Bacteria, E. coli
	339	IA 02-IOW-00865_2	02-IOW-6403	Roff Creek	Wastewater
	340	IA 02-IOW-00870-L_0	02-IOW-657	Elm Lake	Algal Growth: Chlorophyll a
	341	IA 02-IOW-00870-L_0	02-IOW-657	Elm Lake	Turbidity: Suspended Solids
	342	IA 02-IOW-00890-L_0	02-IOW-658	Morse Lake	Algal Growth: Chlorophyll a
yes	343	IA 02-IOW-00890-L_0	02-IOW-658	Morse Lake	Turbidity: Suspended Solids

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	344	IA 02-IOW-0093_0	02-IOW-668	Honey Creek	Biological: low aquatic macroinvertebrate IBI
	345	IA 02-IOW-0098_0	02-IOW-6396	Prairie Creek	Wastewater
	346	IA 02-IOW-0100_1	02-IOW-671	English River	Bacteria: Indicator Bacteria, E. coli
	347	IA 02-IOW-01150-L_0	02-IOW-677	Iowa Lake	Bacteria: Indicator Bacteria, E. coli
	348	IA 02-IOW-01150-L_0	02-IOW-677	Iowa Lake	Fish Consumption Advisory: Mercury
	349	IA 02-IOW-01485_0	02-IOW-6401	Unnamed tributary to Snyder Creek	Wastewater
	350	IA 02-IOW-0150_1	02-IOW-685	Old Mans Creek	Biological: low fish & invert IBIs, cause unknown
	351	IA 02-IOW-0150_2	02-IOW-686	Old Mans Creek	Bacteria: Indicator Bacteria, E. coli
	352	IA 02-IOW-0150_2	02-IOW-686	Old Mans Creek	Biological: low fish IBI
	353	IA 02-IOW-0155_1	02-IOW-1899	Ralston Creek	Toxic Organics: Priority Organics
	354	IA 02-IOW-0156_0	02-IOW-6300	Unnamed Tributary to Ralston Creek	Fish Kill: Due To Unknown Toxicity
	355	IA 02-IOW-01608_0	02-IOW-6412	Rhine Creek	Fish Kill: Caused By Pesticides
	356	IA 02-IOW-0162_0	02-IOW-2043	Muddy Creek	Bacteria: Indicator Bacteria, E. coli
	357	IA 02-IOW-01630-L_0	02-IOW-694	Kent Park Lake	Bacteria: Indicator Bacteria, E. coli
yes	358	IA 02-IOW-0166_0	02-IOW-6588	Unnamed Tributary to Muddy Creek	Bacteria: Indicator Bacteria, E. coli
	359	IA 02-IOW-0166_0	02-IOW-6588	Unnamed Tributary to Muddy Creek	Organic Enrichment: Low Dissolved Oxygen
	360	IA 02-IOW-0175_2	02-IOW-699	Price Creek	Bacteria: Indicator Bacteria, E. coli
	361	IA 02-IOW-0176_0	02-IOW-6377	Price Creek	Bacteria: Indicator Bacteria, E. coli
	362	IA 02-IOW-0177_0	02-IOW-6586	Willow Creek	Bacteria: Indicator Bacteria, E. coli
	363	IA 02-IOW-0179_0	02-IOW-6587	Unnamed Tributary to Willow Creek	Bacteria: Indicator Bacteria, E. coli
	364	IA 02-IOW-0180_2	02-IOW-702	Bear Creek	Biological: low fish & invert IBIs, cause unknown
	365	IA 02-IOW-0185_1	02-IOW-705	Little Bear Creek	Bacteria: Indicator Bacteria, E. coli
	366	IA 02-IOW-0185_1	02-IOW-705	Little Bear Creek	Biological: low fish & invert IBIs, cause unknown
	367	IA 02-IOW-0185_2	02-IOW-706	Little Bear Creek	Bacteria: Indicator Bacteria, E. coli
	368	IA 02-IOW-0187_1	02-IOW-708	Walnut Creek	Biological: low aquatic macroinvertebrate IBI
	369	IA 02-IOW-0187_2	02-IOW-709	Walnut Creek	Biological: low fish IBI

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	370	IA 02-IOW-0187_2	02-IOW-709	Walnut Creek	Bacteria: Indicator Bacteria, E. coli
	371	IA 02-IOW-0188_0	02-IOW-1916	Walnut Creek	Bacteria: Indicator Bacteria, E. coli
	372	IA 02-IOW-0189_0	02-IOW-6317	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria, E. coli
	373	IA 02-IOW-0191_0	02-IOW-6318	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria, E. coli
	374	IA 02-IOW-0213_0	02-IOW-6263	Bennett Creek	Bacteria: Indicator Bacteria, E. coli
	375	IA 02-IOW-0215_0	02-IOW-723	Raven Creek	Bacteria: Indicator Bacteria, E. coli
	376	IA 02-IOW-0225_0	02-IOW-6538	Deer Creek	Bacteria: Indicator Bacteria, E. coli
	377	IA 02-IOW-0226_0	02-IOW-6539	East Tributary to Union Grove Lake	Bacteria: Indicator Bacteria, E. coli
	378	IA 02-IOW-0270_0	02-IOW-746	South Fork Iowa River	Bacteria: Indicator Bacteria, E. coli
yes	379	IA 02-IOW-0270_0	02-IOW-746	South Fork Iowa River	Organic Enrichment: Low Dissolved Oxygen
yes	380	IA 02-IOW-0280_2	02-IOW-748	South Fork Iowa River	Biological: low aquatic macroinvertebrate IBI
	381	IA 02-IOW-0280_3	02-IOW-749	South Fork Iowa River	Bacteria: Indicator Bacteria, E. coli
	382	IA 02-IOW-0280_4	02-IOW-750	South Fork Iowa River	Fish Kill: Caused By Silage Runoff
	383	IA 02-IOW-0280_4	02-IOW-750	South Fork Iowa River	Bacteria: Indicator Bacteria, E. coli
	384	IA 02-IOW-0280_5	02-IOW-751	South Fork Iowa River	Fish Kill: Caused By Silage Runoff
	385	IA 02-IOW-0280_5	02-IOW-751	South Fork Iowa River	Bacteria: Indicator Bacteria, E. coli
	386	IA 02-IOW-0282_0	02-IOW-752	South Fork Iowa River	Bacteria: Indicator Bacteria, E. coli
	387	IA 02-IOW-0290_0	02-IOW-753	Beaver Creek	Bacteria: Indicator Bacteria, E. coli
yes	388	IA 02-IOW-0290_0	02-IOW-753	Beaver Creek	Organic Enrichment: Low Dissolved Oxygen
	389	IA 02-IOW-0295_0	02-IOW-6362	Beaver Creek	Bacteria: Indicator Bacteria, E. coli
	390	IA 02-IOW-0297_0	02-IOW-6363	South Beaver Creek	Bacteria: Indicator Bacteria, E. coli
	391	IA 02-IOW-0300_1	02-IOW-754	Tipton Creek	Bacteria: Indicator Bacteria, E. coli
	392	IA 02-IOW-0300_2	02-IOW-755	Tipton Creek	Bacteria: Indicator Bacteria, E. coli
	393	IA 02-IOW-0302_0	02-IOW-6364	Unnamed Tributary to Tipton Creek	Bacteria: Indicator Bacteria, E. coli
	394	IA 02-IOW-0330-L_0	02-IOW-758	Lower Pine Lake	Bacteria: Indicator Bacteria, E. coli
	395	IA 02-IOW-0380_1	02-IOW-769	East Branch Iowa River	Bacteria: Indicator Bacteria, E. coli
	396	IA 02-IOW-0380_1	02-IOW-769	East Branch Iowa River	Biological: low aquatic macroinvertebrate IBI



New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	397	IA 02-IOW-0380_3	02-IOW-771	East Branch Iowa River	Bacteria: Indicator Bacteria, E. coli
	398	IA 02-IOW-0381_0	02-IOW-6550	Drainage Ditch 13	Bacteria: Indicator Bacteria, E. coli
	399	IA 02-IOW-0382_0	02-IOW-6551	Drainage Ditch 81	Bacteria: Indicator Bacteria, E. coli
	400	IA 02-IOW-0382_0	02-IOW-6551	Drainage Ditch 81	Organic Enrichment: Low Dissolved Oxygen
	401	IA 02-IOW-03830-L_0	02-IOW-773	Eldred Sherwood Lake	Bacteria: Indicator Bacteria, E. coli
	402	IA 02-IOW-0390_0	02-IOW-774	Galls Creek	Bacteria: Indicator Bacteria, E. coli
	403	IA 02-IOW-0395_0	02-IOW-6559	Unnamed Tributary to East Branch Iowa River	Bacteria: Indicator Bacteria, E. coli
	404	IA 02-IOW-04045-L_0	02-IOW-778	West Twin Lake	Algal Growth: Chlorophyll a
yes	405	IA 02-IOW-04045-L_0	02-IOW-778	West Twin Lake	Turbidity: Suspended Solids
	406	IA 02-IOW-0500_0	02-IOW-6563	Little Bear Creek	Bacteria: Indicator Bacteria, E. coli
	407	IA 02-IOW-0510_0	02-IOW-6590	Unnamed Tributary to Walnut Creek	Bacteria: Indicator Bacteria, E. coli
	408	IA 02-SHL-0010_1	02-SHL-782	Shell Rock River	Fish Consumption Advisory: Mercury
	409	IA 02-SHL-0010_2	02-SHL-783	Shell Rock River	Fish Consumption Advisory: Mercury
	410	IA 02-SHL-0010_3	02-SHL-784	Shell Rock River	Fish Consumption Advisory: Mercury
	411	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	Algal Growth: Chlorophyll a
yes	412	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	pH
	413	IA 02-SHL-00105-L_0	02-SHL-1790	Avenue Of The Saints Lake	Turbidity
	414	IA 02-SHL-0020_2	02-SHL-787	Shell Rock River	Organic Enrichment: Low Dissolved Oxygen
	415	IA 02-SHL-0020_2	02-SHL-787	Shell Rock River	Bacteria: Indicator Bacteria, E. coli
	416	IA 02-SHL-0021_0	02-SHL-788	Flood Creek	Bacteria: Indicator Bacteria, E. coli
	417	IA 02-SHL-00235_0	02-SHL-790	Palmer Creek	Fish Kill: Caused By Animal Waste
yes	418	IA 02-SHL-00295-L_0	02-SHL-796	Silver Lake	pH
	419	IA 02-WFC-0020_1	02-WFC-801	West Fork Cedar River	Bacteria: Indicator Bacteria, E. coli
	420	IA 02-WFC-0090-L_0	02-WFC-818	Beeds Lake	Algal Growth: Chlorophyll a
	421	IA 02-WFC-0110_0	02-WFC-820	Bailey Creek	Biological: low fish & invert IBIs, cause unknown
	422	IA 02-WFC-0110_0	02-WFC-820	Bailey Creek	Fish Kill due to Pesticides

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	423	IA 02-WFC-0146_0	02-WFC-2079	Unnamed Tributary to Unnamed Tributary of West Fork Cedar River	Fish Kill: Due To Unknown Toxicity
	424	IA 02-WIN-0010_1	02-WIN-826	Winnebago River	Bacteria: Indicator Bacteria, E. coli
	425	IA 02-WIN-0010_2	02-WIN-827	Winnebago River	Bacteria: Indicator Bacteria, E. coli
	426	IA 02-WIN-0020_2	02-WIN-831	Winnebago River	Biological: low fish & invert IBIs, cause unknown
	427	IA 02-WIN-00210-L_0	02-WIN-832	Rice Lake	Algal Growth: Chlorophyll a
	428	IA 02-WIN-00210-L_0	02-WIN-832	Rice Lake	Turbidity
	429	IA 02-WIN-00450-L_0	02-WIN-841	Clear Lake	Bacteria: Indicator Bacteria, E. coli
	430	IA 02-WIN-0050_0	02-WIN-845	Calmus Creek	Biological: low fish & invert IBIs, cause unknown
	431	IA 02-WIN-0081_0	02-WIN-1837	Beaver Creek	Organic Enrichment: Low Dissolved Oxygen
	432	IA 03-NSK-0010_1	03-NSK-853	North Skunk River	Bacteria: Indicator Bacteria, E. coli
	433	IA 03-NSK-0010_1	03-NSK-853	North Skunk River	Metals: Chromium
	434	IA 03-NSK-0010_2	03-NSK-854	North Skunk River	Bacteria: Indicator Bacteria, E. coli
	435	IA 03-NSK-0010_2	03-NSK-854	North Skunk River	Metals: Chromium
	436	IA 03-NSK-0020_2	03-NSK-859	North Skunk River	Biological: low fish & invert IBIs, cause unknown
	437	IA 03-NSK-00250-L_0	03-NSK-862	Hawthorn Lake	Algal Growth: Chlorophyll a
	438	IA 03-NSK-00340-L_0	03-NSK-865	Rock Creek Lake	Bacteria: Indicator Bacteria, E. coli
	439	IA 03-SKM-0010_1	03-SKM-884	Mississippi River	Metals: Aluminum
	440	IA 03-SKM-00178-L_0	03-SKM-888	Pollmiller Park Lake	Fish Consumption Advisory: Mercury
	441	IA 03-SKU-0010_1	03-SKU-889	Skunk River	Bacteria: Indicator Bacteria, E. coli
	442	IA 03-SKU-0061_0	03-SKU-6549	Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	443	IA 03-SKU-0063_0	03-SKU-6573	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	444	IA 03-SKU-0064_0	03-SKU-6581	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	445	IA 03-SKU-0065_0	03-SKU-6585	Unnamed Tributary to Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	446	IA 03-SKU-00650-L_0	03-SKU-896	Geode Lake	Fish Consumption Advisory: Mercury
	447	IA 03-SKU-0066_0	03-SKU-6591	Unnamed Tributary to Lake Geode	Bacteria: Indicator Bacteria, E. coli
	448	IA 03-SKU-00835_1	03-SKU-6410	unnamed tributary to Brush Creek	Wastewater

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	449	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Organic Enrichment: Low Dissolved Oxygen
	450	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Toxic Inorganics: Ammonia
	451	IA 03-SKU-0085_0	03-SKU-902	Saunders Branch	Toxic Organics: Coal Tar
	452	IA 03-SKU-0090_1	03-SKU-905	Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	453	IA 03-SSK-0010_2	03-SSK-926	South Skunk River	Bacteria: Indicator Bacteria, E. coli
	454	IA 03-SSK-0010_3	03-SSK-927	South Skunk River	Bacteria: Indicator Bacteria, E. coli
	455	IA 03-SSK-00118-L_0	03-SSK-929	White Oak Conservation Area Lake	Algal Growth: Chlorophyll a
	456	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Bacteria: Indicator Bacteria, E. coli
	457	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Fish Consumption Advisory: Mercury
	458	IA 03-SSK-00120-L_0	03-SSK-930	Lake Keomah	Organic Enrichment: Low Dissolved Oxygen
	459	IA 03-SSK-0020_1	03-SSK-931	South Skunk River	Bacteria: Indicator Bacteria, E. coli
	460	IA 03-SSK-0030_2	03-SSK-934	South Skunk River	Bacteria: Indicator Bacteria, E. coli
yes	461	IA 03-SSK-0030_2	03-SSK-934	South Skunk River	Biological: low fish & invert IBIs, cause unknown
	462	IA 03-SSK-0030_3	03-SSK-935	South Skunk River	Biological: low aquatic macroinvertebrate IBI
	463	IA 03-SSK-0040_0	03-SSK-943	Indian Creek	Bacteria: Indicator Bacteria, E. coli
yes	464	IA 03-SSK-0040_0	03-SSK-943	Indian Creek	Biological: low aquatic macroinvertebrate IBI
	465	IA 03-SSK-00530-L_0	03-SSK-950	Hickory Grove Lake	Bacteria: Indicator Bacteria, E. coli
yes	466	IA 03-SSK-00530-L_0	03-SSK-950	Hickory Grove Lake	Algal Growth: Chlorophyll a
	467	IA 03-SSK-0056-L_0	03-SSK-1918	Lake Petocka (formerly Lake Patoka)	Fish Kill: Caused By Chlorine
yes	468	IA 03-SSK-0057_0	03-SSK-952	Ballard Creek	Fish Kill: Caused By Animal Waste
	469	IA 03-SSK-0057_0	03-SSK-952	Ballard Creek	Biological: low fish IBI
	470	IA 03-SSK-0058_0	03-SSK-953	Walnut Creek	Biological: low fish IBI
	471	IA 03-SSK-0090_0	03-SSK-960	Long Dick Creek	Biological: low aquatic macroinvertebrate IBI
	472	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Bacteria: Indicator Bacteria, E. coli
	473	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Fish Kill: Caused By Animal Waste
yes	474	IA 03-SSK-0091_0	03-SSK-2007	Long Dick Creek	Fish Kill: Caused By Pesticides

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	475	IA 03-SSK-0160_0	03-SSK-6599	Unnamed Tributary to Squaw Creek	Bacteria: Indicator Bacteria, E. coli
	476	IA 03-SSK-0170_0	03-SSK-6508	Montgomery Creek	Bacteria: Indicator Bacteria, E. coli
	477	IA 03-SSK-0175_0	03-SSK-6598	Prairie Creek	Bacteria: Indicator Bacteria, E. coli
	478	IA 04-EDM-0090_2	04-EDM-985	Buffalo Creek	Biological: low fish IBI
	479	IA 04-EDM-0090_3	04-EDM-986	Buffalo Creek	Biological: low fish IBI
	480	IA 04-FAB-0010_0	04-FAB-992	North Fabius River	Biological: low fish IBI
	481	IA 04-FOX-0010_1	04-FOX-994	Fox River	Biological: low fish IBI
	482	IA 04-FOX-0010_2	04-FOX-995	Fox River	Bacteria: Indicator Bacteria, E. coli
	483	IA 04-FOX-0010_2	04-FOX-995	Fox River	Biological: low fish IBI
	484	IA 04-LDM-0010_1	04-LDM-1002	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	485	IA 04-LDM-0010_2	04-LDM-1003	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	486	IA 04-LDM-0010_3	04-LDM-1004	Des Moines River	Fish Kill: Due To Unknown Toxicity
	487	IA 04-LDM-0010_3	04-LDM-1004	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	488	IA 04-LDM-0010_4	04-LDM-1005	Des Moines River	Fish Kill: Due To Unknown Toxicity
	489	IA 04-LDM-0010_4	04-LDM-1005	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	490	IA 04-LDM-00160-L_0	04-LDM-1008	Lacey Keosauqua Lake	Bacteria: Indicator Bacteria, E. coli
	491	IA 04-LDM-0020_1	04-LDM-1010	Des Moines River	Fish Kill: Due To Unknown Toxicity
	492	IA 04-LDM-0020_1	04-LDM-1010	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	493	IA 04-LDM-00215-L_0	04-LDM-1014	Ottumwa Lagoon	Fish Kill: Caused By Petroleum Spill
	494	IA 04-LDM-00270-L_0	04-LDM-1016	Lake Miami	Fish Consumption Advisory: Mercury
	495	IA 04-LDM-0030-L_0	04-LDM-1017	Red Rock Reservoir	Bacteria: Indicator Bacteria, E. coli
	496	IA 04-LDM-0030-L_0	04-LDM-1017	Red Rock Reservoir	Turbidity
	497	IA 04-LDM-00380-L_0	04-LDM-1019	Roberts Creek Lake	Turbidity
	498	IA 04-LDM-0090_2	04-LDM-1033	Soap Creek	Biological: low fish IBI
	499	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Bacteria: Indicator Bacteria, E. coli
	500	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Fish Consumption Advisory: Mercury
yes	501	IA 04-LDM-00995-L_0	04-LDM-1035	Lake Wapello	Turbidity: Secchi Disk Transparency
	502	IA 04-LDM-0130_0	04-LDM-1045	Miller Creek	Fish Kill: Due To Unknown Toxicity

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	503	IA 04-LDM-0140_1	04-LDM-1048	Muchakinock Creek	Biological: low fish & invert IBIs, cause unknown
	504	IA 04-LDM-0140_2	04-LDM-1049	Muchakinock Creek	Biological: low fish IBI
	505	IA 04-LDM-0160_0	04-LDM-1053	Cedar Creek	Bacteria: Indicator Bacteria, E. coli
	506	IA 04-LDM-0170_0	04-LDM-1054	Cedar Creek	Biological: low fish & invert IBIs, cause unknown
yes	507	IA 04-LDM-0190_0	04-LDM-1057	English Creek	Biological: low aquatic macroinvertebrate IBI
	508	IA 04-LDM-0200_0	04-LDM-1059	White Breast Creek	Bacteria: Indicator Bacteria, E. coli
	509	IA 04-LDM-0200_0	04-LDM-1059	White Breast Creek	Biological: low fish & invert IBIs, cause unknown
	510	IA 04-LDM-0210_2	04-LDM-1825	White Breast Creek	Biological: low fish & invert IBIs, cause unknown
yes	511	IA 04-LDM-02190-L_0	04-LDM-1065	East Lake (Osceola)	pH
	512	IA 04-LDM-02296-L_0	04-LDM-1073	Red Haw Lake	Fish Consumption Advisory: Mercury
	513	IA 04-LDM-0230_0	04-LDM-1074	South River	Bacteria: Indicator Bacteria, E. coli
	514	IA 04-LDM-02615-L_0	04-LDM-1080	Lake Ahquabi	Algal Growth: Chlorophyll a
	515	IA 04-LDM-02615-L_0	04-LDM-1080	Lake Ahquabi	Bacteria: Indicator Bacteria, E. coli
	516	IA 04-LDM-0270_0	04-LDM-1083	Middle River	Bacteria: Indicator Bacteria, E. coli
	517	IA 04-LDM-0270_0	04-LDM-1083	Middle River	Biological: low Biological Integrity
	518	IA 04-LDM-02700-L_0	04-LDM-6311	Grade Lake	Fish Consumption Advisory: Mercury
	519	IA 04-LDM-02725-L_0	04-LDM-1085	South Banner Lake	Fish Consumption Advisory: Mercury
	520	IA 04-LDM-02726-L_0	04-LDM-1988	North Banner Lake	Fish Consumption Advisory: Mercury
	521	IA 04-LDM-02870-L_0	04-LDM-1089	Meadow Lake	Algal Growth: Chlorophyll a
	522	IA 04-LDM-0300_2	04-LDM-1097	North River	Biological: low fish IBI
	523	IA 04-LDM-0300_2	04-LDM-1097	North River	Bacteria: Indicator Bacteria, E. coli
	524	IA 04-LDM-0350_0	04-LDM-1947	Bear Creek	Organic Enrichment: Low Dissolved Oxygen
yes	525	IA 04-RAC-00475-L_0	04-RAC-1134	Black Hawk Lake	Bacteria: Indicator Bacteria, E. coli
	526	IA 04-RAC-0050_2	04-RAC-1139	North Raccoon River	Biological: low fish & invert IBIs, cause unknown
	527	IA 04-RAC-00530-L_0	04-RAC-1143	Storm Lake	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
yes	528	IA 04-RAC-0120_0	04-RAC-1159	Purgatory Creek	Fish Kill: Caused By Pesticides
	529	IA 04-RAC-0123_0	04-RAC-1160	Marrowbone Creek	Biological: low aquatic macroinvertebrate IBI
	530	IA 04-RAC-0123_0	04-RAC-1160	Marrowbone Creek	Organic Enrichment: Low Dissolved Oxygen
	531	IA 04-RAC-0127_0	04-RAC-1161	Elk Run	Fish Kill: Caused By Animal Waste
	532	IA 04-RAC-01390-L_0	04-RAC-1167	North Twin Lake	Bacteria: Indicator Bacteria, E. coli
	533	IA 04-RAC-01395-L_0	04-RAC-1168	South Twin Lake	Algal Growth: Chlorophyll a
	534	IA 04-RAC-01395-L_0	04-RAC-1168	South Twin Lake	Turbidity
	535	IA 04-RAC-01690-L_0	04-RAC-1180	Pickrel Lake	Turbidity: Siltation/Turbidity
	536	IA 04-RAC-01690-L_0	04-RAC-1180	Pickrel Lake	Algal Growth: Chlorophyll a
	537	IA 04-RAC-01695_0	04-RAC-1883	Poor Farm Creek	Fish Kill: Caused By Fuel Spill
	538	IA 04-RAC-0170_0	04-RAC-1181	South Raccoon River	Bacteria: Indicator Bacteria, E. coli
yes	539	IA 04-RAC-0180_1	04-RAC-1183	South Raccoon River	Fish Kill: Caused By Fertilizer Spill
	540	IA 04-RAC-02220-L_0	04-RAC-1196	Springbrook Lake	Bacteria: Indicator Bacteria, E. coli
yes	541	IA 04-RAC-0250_0	04-RAC-1208	Brushy Creek	Fish Kill: Caused By Fertilizer Spill
	542	IA 04-RAC-0251_0	04-RAC-1818	Brushy Creek	Fish Kill: Caused By Animal Waste
	543	IA 04-RAC-0253_0	04-RAC-1209	Brushy Creek	Fish Kill: Caused By Animal Waste
yes	544	IA 04-RAC-0253_0	04-RAC-1209	Brushy Creek	Fish Kill: Caused By Fertilizer Spill
yes	545	IA 04-RAC-0254_0	04-RAC-6537	Unnamed Tributary to Brushy Creek (Halburn Creek)	Fish Kill: Caused By Fertilizer Spill
	546	IA 04-UDM-0020-L_0	04-UDM-1213	Saylorville Reservoir	Bacteria: Indicator Bacteria, E. coli
yes	547	IA 04-UDM-0020-L_0	04-UDM-1213	Saylorville Reservoir	Turbidity: Secchi Disk Transparency
	548	IA 04-UDM-0030_1	04-UDM-1214	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	549	IA 04-UDM-0030_2	04-UDM-1215	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	550	IA 04-UDM-0040_1	04-UDM-1216	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	551	IA 04-UDM-0040_2	04-UDM-1217	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	552	IA 04-UDM-0060_0	04-UDM-1219	Des Moines River	Bacteria: Indicator Bacteria, E. coli
	553	IA 04-UDM-0070_0	04-UDM-1220	Des Moines River	Bacteria: Indicator Bacteria, E. coli
yes	554	IA 04-UDM-0070_0	04-UDM-1220	Des Moines River	Fish Consumption Advisory: Mercury

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	555	IA 04-UDM-0080_0	04-UDM-1221	Des Moines River	Fish Consumption Advisory: Mercury
	556	IA 04-UDM-0090_1	04-UDM-1222	Des Moines River	Fish Consumption Advisory: Mercury
	557	IA 04-UDM-0090_2	04-UDM-1223	Des Moines River	Fish Consumption Advisory: Mercury
yes	558	IA 04-UDM-01060-L_0	04-UDM-1231	Twelve-mile Lake	Algal Growth: Chlorophyll a
yes	559	IA 04-UDM-01060-L_0	04-UDM-1231	Twelve-mile Lake	Turbidity: Suspended Solids
	560	IA 04-UDM-0110_1	04-UDM-1233	Beaver Creek	Bacteria: Indicator Bacteria, E. coli
yes	561	IA 04-UDM-0110_1	04-UDM-1233	Beaver Creek	Biological: low aquatic macroinvertebrate IBI
yes	562	IA 04-UDM-0150_0	04-UDM-1243	Big Creek	Bacteria: Indicator Bacteria, E. coli
	563	IA 04-UDM-0151_0	04-UDM-6540	Big Creek	Bacteria: Indicator Bacteria, E. coli
	564	IA 04-UDM-0153_0	04-UDM-6541	Unnamed Tributary to Big Creek	Bacteria: Indicator Bacteria, E. coli
	565	IA 04-UDM-0170_0	04-UDM-1250	Skillet Creek	Biological: low Biological Integrity
	566	IA 04-UDM-0180_1	04-UDM-1252	Boone River	Bacteria: Indicator Bacteria, E. coli
	567	IA 04-UDM-01880-L_0	04-UDM-1255	Briggs Woods Lake	pH
yes	568	IA 04-UDM-01880-L_0	04-UDM-1255	Briggs Woods Lake	Bacteria: Indicator Bacteria, E. coli
yes	569	IA 04-UDM-0190_0	04-UDM-1256	Boone River	Fish Kill: Due To Unknown Toxicity
	570	IA 04-UDM-0202_0	04-UDM-6494	Drainage Ditch 97	Fish Kill: Caused By Fertilizer Spill
	571	IA 04-UDM-0215_0	04-UDM-1260	Lyons Creek	Bacteria: Indicator Bacteria, E. coli
	572	IA 04-UDM-0215_0	04-UDM-1260	Lyons Creek	Fish Kill: Due To Unknown Toxicity
	573	IA 04-UDM-0247_0	04-UDM-1826	Buttermilk Creek	Bacteria: Indicator Bacteria, E. coli
	574	IA 04-UDM-0253_1	04-UDM-1270	West Otter Creek	Fish Kill: Due To Unknown Toxicity
	575	IA 04-UDM-0275-L_0	04-UDM-1276	Brushy Creek Lake	Bacteria: Indicator Bacteria, E. coli
	576	IA 04-UDM-0300_1	04-UDM-1278	Lizard Creek	Biological: low aquatic macroinvertebrate IBI
	577	IA 04-UDM-0300_1	04-UDM-1278	Lizard Creek	Bacteria: Indicator Bacteria, E. coli
	578	IA 04-UDM-03110-L_0	04-UDM-1281	Lizard Lake	Algal Growth: Chlorophyll a
	579	IA 04-UDM-03110-L_0	04-UDM-1281	Lizard Lake	Turbidity: Suspended Solids
yes	580	IA 04-UDM-03983-L_0	04-UDM-1754	West Swan Lake	Algal Growth: Chlorophyll a
yes	581	IA 04-UDM-03983-L_0	04-UDM-1754	West Swan Lake	Turbidity: Suspended Solids

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	582	IA 04-UDM-03990-L_0	04-UDM-1304	High Lake	Algal Growth: Chlorophyll a
	583	IA 04-UDM-03990-L_0	04-UDM-1304	High Lake	Turbidity: Suspended Solids
	584	IA 04-UDM-0520_0	04-UDM-6542	Little Creek	Bacteria: Indicator Bacteria, E. coli
	585	IA 04-UDM-0525_0	04-UDM-6543	Turkey Creek	Bacteria: Indicator Bacteria, E. coli
yes	586	IA 04-UDM-0530_0	04-UDM-6544	Unnamed Tributary to Big Creek	Bacteria: Indicator Bacteria, E. coli
	587	IA 04-UDM-0535_0	04-UDM-6545	Prairie Creek	Bacteria: Indicator Bacteria, E. coli
yes	588	IA 05-CHA-0010_1	05-CHA-1307	Chariton River	Bacteria: Indicator Bacteria, E. coli
	589	IA 05-CHA-0010_2	05-CHA-1308	Chariton River	Bacteria: Indicator Bacteria, E. coli
	590	IA 05-CHA-0020-L_1	05-CHA-1309	Rathbun Reservoir	Turbidity
	591	IA 05-CHA-0020-L_2	05-CHA-2027	Rathbun Reservoir	Turbidity
	592	IA 05-CHA-0020-L_3	05-CHA-2028	Rathbun Reservoir	Turbidity
	593	IA 05-CHA-0020-L_4	05-CHA-2030	Rathbun Reservoir	Turbidity
	594	IA 05-CHA-0030_1	05-CHA-1310	Chariton River	Biological: low fish IBI
	595	IA 05-CHA-0030_1	05-CHA-1310	Chariton River	Bacteria: Indicator Bacteria, E. coli
	596	IA 05-CHA-0030_2	05-CHA-1311	Chariton River	Bacteria: Indicator Bacteria, E. coli
	597	IA 05-CHA-0030_2	05-CHA-1311	Chariton River	Biological: low fish & invert IBIs, cause unknown
	598	IA 05-CHA-00301_0	05-CHA-1312	Chariton River	Bacteria: Indicator Bacteria, E. coli
	599	IA 05-CHA-00302_0	05-CHA-1313	Chariton Creek	Bacteria: Indicator Bacteria, E. coli
	600	IA 05-CHA-00325-L_0	05-CHA-1318	Centerville Reservoir Upper	Fish Consumption Advisory: Mercury
	601	IA 05-CHA-0040_0	05-CHA-1323	Cooper Creek	Biological: low fish IBI
	602	IA 05-CHA-0056_0	05-CHA-2019	Honey Creek	Bacteria: Indicator Bacteria, E. coli
	603	IA 05-CHA-0057_0	05-CHA-1915	Unnamed Tributary to Rathbun Reservoir	Fish Kill: Caused By Fuel Spill
	604	IA 05-CHA-0060_1	05-CHA-1327	South Fork Chariton River	Biological: low fish IBI
	605	IA 05-CHA-0060_1	05-CHA-1327	South Fork Chariton River	Bacteria: Indicator Bacteria, E. coli
	606	IA 05-CHA-0060_2	05-CHA-1328	South Fork Chariton River	Bacteria: Indicator Bacteria, E. coli
	607	IA 05-CHA-0060_2	05-CHA-1328	South Fork Chariton River	Biological: low fish & invert IBIs, cause unknown
	608	IA 05-CHA-0061_0	05-CHA-1329	Walker Branch	Bacteria: Indicator Bacteria, E. coli



New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	609	IA 05-CHA-0062_0	05-CHA-1330	Jordan Creek	Bacteria: Indicator Bacteria, E. coli
	610	IA 05-CHA-0062_0	05-CHA-1330	Jordan Creek	Biological: low fish & invert IBIs, cause unknown
	611	IA 05-CHA-0063_0	05-CHA-1332	Jackson Creek	Bacteria: Indicator Bacteria, E. coli
	612	IA 05-CHA-0063_0	05-CHA-1332	Jackson Creek	Biological: low fish IBI
	613	IA 05-CHA-0064_0	05-CHA-1333	West Jackson Creek	Biological: low fish & invert IBIs, cause unknown
	614	IA 05-CHA-0066_0	05-CHA-1335	Ninemile Creek	Bacteria: Indicator Bacteria, E. coli
	615	IA 05-CHA-0066_0	05-CHA-1335	Ninemile Creek	Biological: low fish IBI
	616	IA 05-CHA-0067_0	05-CHA-1336	Dick Creek	Biological: low fish & invert IBIs, cause unknown
	617	IA 05-CHA-0068_0	05-CHA-1337	Honey Creek	Bacteria: Indicator Bacteria, E. coli
	618	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Bacteria: Indicator Bacteria, E. coli
	619	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Organic Enrichment: Low Dissolved Oxygen
	620	IA 05-CHA-00690-L_0	05-CHA-1338	Bob White Lake	Algal Growth: Chlorophyll a
	621	IA 05-CHA-0070_0	05-CHA-1339	Wolf Creek	Biological: low fish & invert IBIs, cause unknown
	622	IA 05-CHA-0070_0	05-CHA-1339	Wolf Creek	Bacteria: Indicator Bacteria, E. coli
	623	IA 05-CHA-0077_0	05-CHA-1341	Fivemile Creek	Bacteria: Indicator Bacteria, E. coli
	624	IA 05-GRA-0030_0	05-GRA-1350	East Fork Medicine Creek	Biological: low fish & invert IBIs, cause unknown
	625	IA 05-GRA-0040_0	05-GRA-1351	Thompson River	Bacteria: Indicator Bacteria, E. coli
	626	IA 05-GRA-0070_0	05-GRA-1356	Weldon River	Biological: low fish & invert IBIs, cause unknown
	627	IA 05-GRA-0080_0	05-GRA-1357	Little River	Biological: low fish IBI
	628	IA 05-GRA-00810-L_0	05-GRA-1358	Little River Watershed Lake	Bacteria: Indicator Bacteria, E. coli
	629	IA 05-GRA-01010-L_0	05-GRA-1361	Nine Eagles Lake	Bacteria: Indicator Bacteria, E. coli
	630	IA 05-GRA-01010-L_0	05-GRA-1361	Nine Eagles Lake	Fish Consumption Advisory: Mercury
yes	631	IA 05-GRA-01320-L_0	05-GRA-1367	Twelve Mile Creek Lake	Organic Enrichment: Low Dissolved Oxygen
	632	IA 05-GRA-01410-L_0	05-GRA-1369	Thayer Lake	Turbidity
	633	IA 05-GRA-0145-L_0	05-GRA-1371	Three Mile Lake	Organic Enrichment: Low Dissolved Oxygen

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	634	IA 05-GRA-0170_0	05-GRA-1376	Lotts Creek	Biological: low fish IBI
	635	IA 05-GRA-0180_0	05-GRA-1378	Middle Fork Grand River	Biological: low fish & invert IBIs, cause unknown
	636	IA 05-GRA-0180_0	05-GRA-1378	Middle Fork Grand River	Bacteria: Indicator Bacteria, E. coli
	637	IA 05-NOD-0020_0	05-NOD-1389	Nodaway River (aka West Nodaway R.)	Bacteria: Indicator Bacteria, E. coli
	638	IA 05-NOD-0030_1	05-NOD-1391	East Nodaway River	Bacteria: Indicator Bacteria, E. coli
	639	IA 05-NOD-0030_2	05-NOD-1392	East Nodaway River	Biological: low fish IBI
	640	IA 05-NOD-00485-L_0	05-NOD-1396	Orient Lake	pH
	641	IA 05-NOD-00485-L_0	05-NOD-1396	Orient Lake	Algal Growth: Chlorophyll a
	642	IA 05-NOD-0070_0	05-NOD-1400	Middle Nodaway River	Biological: low fish & invert IBIs, cause unknown
	643	IA 05-NOD-00820-L_0	05-NOD-1404	Mormon Trail Lake	Fish Consumption Advisory: Mercury
	644	IA 05-NOD-00930-L_0	05-NOD-1407	Viking Lake	Bacteria: Indicator Bacteria, E. coli
	645	IA 05-NSH-0010_0	05-NSH-1412	Nishnabotna River	Bacteria: Indicator Bacteria, E. coli
	646	IA 05-NSH-0020_1	05-NSH-1414	East Nishnabotna River	Bacteria: Indicator Bacteria, E. coli
	647	IA 05-NSH-0020_2	05-NSH-1415	East Nishnabotna River	Bacteria: Indicator Bacteria, E. coli
	648	IA 05-NSH-00580-L_0	05-NSH-1435	Lake Anita	Algal Growth: Cyanobacteria
yes	649	IA 05-NSH-00580-L_0	05-NSH-1435	Lake Anita	Bacteria: Indicator Bacteria, E. coli
	650	IA 05-NSH-0060_0	05-NSH-1436	Troublesome Creek	Biological: low fish IBI
	651	IA 05-NSH-0080_1	05-NSH-1441	West Nishnabotna River	Bacteria: Indicator Bacteria, E. coli
	652	IA 05-NSH-0090_3	05-NSH-1446	West Nishnabotna River	Biological: low fish & invert IBIs, cause unknown
	653	IA 05-NSH-0090_4	05-NSH-1447	West Nishnabotna River	Fish Kill: Caused By Animal Waste
	654	IA 05-NSH-0120_0	05-NSH-1454	Silver Creek	Biological: low fish IBI
	655	IA 05-NSH-0128_0	05-NSH-1457	Mud Creek	Biological: low fish IBI
	656	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Algal Growth: Chlorophyll a
yes	657	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Bacteria: Indicator Bacteria, E. coli
yes	658	IA 05-NSH-01440-L_0	05-NSH-1462	Prairie Rose Lake	Turbidity
	659	IA 05-PLA-0015-L_0	05-PLA-2064	Sands Timber Lake (aka Blockton Reservoir)	Turbidity
	660	IA 05-PLA-00285-L_0	05-PLA-1470	McKinley Lake	Fish Consumption Advisory: PCBs

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	661	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Algal Growth: Chlorophyll a
yes	662	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Organic Enrichment: Low Dissolved Oxygen
yes	663	IA 05-PLA-00295-L_0	05-PLA-1472	Green Valley Lake	Turbidity: Secchi Disk Transparency
	664	IA 05-PLA-00335-L_0	05-PLA-1476	Lake Of Three Fires	Organic Enrichment: Low Dissolved Oxygen
	665	IA 05-PLA-00380-L_0	05-PLA-1477	Wilson Park Lake	Algal Growth: Chlorophyll a
	666	IA 05-PLA-00380-L_0	05-PLA-1477	Wilson Park Lake	pH
	667	IA 05-PLA-0040_1	05-PLA-1480	West Branch One Hundred And Two River	Biological: low fish & invert IBIs, cause unknown
	668	IA 05-PLA-00430-L_0	05-PLA-1482	Windmill Lake	Turbidity
	669	IA 05-PLA-00430-L_0	05-PLA-1482	Windmill Lake	Algal Growth: Chlorophyll a
	670	IA 05-TAR-0020_0	05-TAR-1497	West Tarkio Creek	Biological: low fish & invert IBIs, cause unknown
	671	IA 06-BOY-0020_1	06-BOY-1502	Boyer River	Bacteria: Indicator Bacteria, E. coli
	672	IA 06-BSR-0010_3	06-BSR-1522	Big Sioux River	Fish Kill: Caused By Organic Enrichment/Low Dissolved Oxygen
	673	IA 06-BSR-0021_0	06-BSR-1527	Perry Creek	Biological: low fish & invert IBIs, cause unknown
	674	IA 06-BSR-0023_0	06-BSR-1529	Broken Kettle Creek	Biological: low fish & invert IBIs, cause unknown
	675	IA 06-BSR-0027_0	06-BSR-1531	Indian Creek	Bacteria: Indicator Bacteria, E. coli
yes	676	IA 06-BSR-00280-L_0	06-BSR-1532	Lake Pahoja	Bacteria: Indicator Bacteria, E. coli
	677	IA 06-BSR-0029_0	06-BSR-1533	Sixmile Creek	Biological: low fish & invert IBIs, cause unknown
	678	IA 06-BSR-0029_0	06-BSR-1533	Sixmile Creek	Bacteria: Indicator Bacteria, E. coli
	679	IA 06-BSR-0030_0	06-BSR-1534	Rock River	Bacteria: Indicator Bacteria, E. coli
	680	IA 06-BSR-0030_0	06-BSR-1534	Rock River	Fish Kill: Caused By Animal Waste
	681	IA 06-BSR-0035_0	06-BSR-1878	Dry Creek	Fish Kill: Due To Natural Causes
	682	IA 06-BSR-0035_0	06-BSR-1878	Dry Creek	Biological: low fish & invert IBIs, cause unknown
	683	IA 06-BSR-0040_1	06-BSR-1537	Rock River	Bacteria: Indicator Bacteria, E. coli
	684	IA 06-BSR-0040_2	06-BSR-1538	Rock River	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	685	IA 06-BSR-0060_1	06-BSR-1798	Little Rock River	Bacteria: Indicator Bacteria, E. coli
	686	IA 06-BSR-0060_2	06-BSR-1799	Little Rock River	Biological: low aquatic macroinvertebrate IBI
	687	IA 06-BSR-0060_3	06-BSR-1800	Little Rock River	Bacteria: Indicator Bacteria, E. coli
	688	IA 06-BSR-0065_0	06-BSR-1934	Unnamed Tributary to Little Rock River	Fish Kill: Due To Unknown Toxicity
yes	689	IA 06-BSR-0072_0	06-BSR-1545	Otter Creek	Fish Kill: Caused By Animal Waste
	690	IA 06-BSR-0072_0	06-BSR-1545	Otter Creek	Fish Kill: Caused By Spill
	691	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Biological: low fish & invert IBIs, cause unknown
	692	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Fish Kill: Caused By Animal Waste
	693	IA 06-BSR-0080_0	06-BSR-1546	Mud Creek	Bacteria: Indicator Bacteria, E. coli
	694	IA 06-FLO-0010_0	06-FLO-1552	Floyd River	Bacteria: Indicator Bacteria, E. coli
	695	IA 06-FLO-0020_1	06-FLO-1553	Floyd River	Biological: low fish IBI
	696	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Fish Kill: Caused By Animal Waste
yes	697	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Fish Kill: Caused By Fertilizer Spill
	698	IA 06-FLO-0020_2	06-FLO-1554	Floyd River	Biological: low fish & invert IBIs, cause unknown
	699	IA 06-FLO-0021_0	06-FLO-6266	Floyd River	Fish Kill: Caused By Pesticides
	700	IA 06-FLO-0040_0	06-FLO-1558	West Branch Floyd River	Biological: low fish IBI
	701	IA 06-FLO-0065_0	06-FLO-1829	Willow Creek	Fish Kill: Due To Unknown Toxicity
	702	IA 06-FLO-0070_0	06-FLO-1562	Deep Creek	Biological: low fish & invert IBIs, cause unknown
	703	IA 06-LSR-0010_0	06-LSR-1564	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	704	IA 06-LSR-0020_1	06-LSR-1565	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	705	IA 06-LSR-0030_1	06-LSR-1570	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	706	IA 06-LSR-0030_4	06-LSR-1573	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	707	IA 06-LSR-0040_1	06-LSR-1577	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	708	IA 06-LSR-0040_2	06-LSR-1578	Little Sioux River	Bacteria: Indicator Bacteria, E. coli
yes	709	IA 06-LSR-0040_2	06-LSR-1578	Little Sioux River	Biological: low fish & invert IBIs, cause unknown

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	710	IA 06-LSR-0040_3	06-LSR-1579	Little Sioux River	Biological: low aquatic macroinvertebrate IBI
	711	IA 06-LSR-0070_1	06-LSR-1581	Maple River	Bacteria: Indicator Bacteria, E. coli
	712	IA 06-LSR-0120_1	06-LSR-1598	West Fork Little Sioux River	Bacteria: Indicator Bacteria, E. coli
	713	IA 06-LSR-0120_2	06-LSR-1599	West Fork Little Sioux River	Biological: low fish & invert IBIs, cause unknown
	714	IA 06-LSR-0131_0	06-LSR-1834	West Fork Little Sioux River	Fish Kill: Due To Unknown Toxicity
	715	IA 06-LSR-0143_0	06-LSR-1605	Johns Creek	Biological: low fish IBI
	716	IA 06-LSR-01495_0	06-LSR-2048	Ashton Creek	Organic Enrichment: Low Dissolved Oxygen
	717	IA 06-LSR-0150_0	06-LSR-1611	Willow Creek	Biological: low aquatic macroinvertebrate IBI
	718	IA 06-LSR-0170_0	06-LSR-1615	Mill Creek	Biological: low fish & invert IBIs, cause unknown
	719	IA 06-LSR-0207_0	06-LSR-6342	Unnamed Tributary to Little Sioux River	Fish Kill: Caused By Animal Waste
	720	IA 06-LSR-02220-L_0	06-LSR-1625	Gustafson Lake	Bacteria: Indicator Bacteria, E. coli
	721	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Fish Kill: Caused By Animal Waste
	722	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Biological: low aquatic macroinvertebrate IBI
	723	IA 06-LSR-0223_0	06-LSR-1626	Willow Creek	Bacteria: Indicator Bacteria, E. coli
	724	IA 06-LSR-0224_0	06-LSR-6299	Willow Creek	Fish Kill: Caused By Animal Waste
	725	IA 06-LSR-0224_0	06-LSR-6299	Willow Creek	Bacteria: Indicator Bacteria, E. coli
	726	IA 06-LSR-02325-L_0	06-LSR-1629	Elk Lake	Algal Growth: Chlorophyll a
	727	IA 06-LSR-02325-L_0	06-LSR-1629	Elk Lake	Turbidity: Suspended Solids
	728	IA 06-LSR-02330-L_0	06-LSR-1630	Virgin Lake	Turbidity: Suspended Solids
	729	IA 06-LSR-02330-L_0	06-LSR-1630	Virgin Lake	Algal Growth: Chlorophyll a
	730	IA 06-LSR-02393-L_0	06-LSR-1775	Bluewing Marsh	Algal Growth: Chlorophyll a
	731	IA 06-LSR-0250_0	06-LSR-1638	Ocheyedan River	Bacteria: Indicator Bacteria, E. coli
	732	IA 06-LSR-0270_0	06-LSR-1644	Stony Creek	Biological: low fish & invert IBIs, cause unknown
yes	733	IA 06-LSR-02820-L_0	06-LSR-1649	Pleasant Lake	Algal Growth: Chlorophyll a
	734	IA 06-LSR-02840-L_1	06-LSR-1653	West Okoboji Lake	Bacteria: Indicator Bacteria, E. coli
	735	IA 06-LSR-02840-L_2	06-LSR-2066	West Okoboji Lake	Bacteria: Indicator Bacteria, E. coli

New listings	Count	Legacy ADB Code	ADB Code	Water body Name	Cause of 303(d) listing
	736	IA 06-LSR-02850-L_0	06-LSR-1655	Big Spirit Lake	Bacteria: Indicator Bacteria, E. coli
	737	IA 06-LSR-02855-L_0	06-LSR-1656	Marble Lake	Algal Growth: Chlorophyll a
yes	738	IA 06-LSR-02890-L_0	06-LSR-1663	Center Lake	Algal Growth: Chlorophyll a
	739	IA 06-LSR-0305_0	06-LSR-1667	Milford Creek	Biological: low aquatic macroinvertebrate IBI
	740	IA 06-SOL-0010_1	06-SOL-1673	Soldier River	Bacteria: Indicator Bacteria, E. coli
	741	IA 06-WED-0003_2	06-WED-1683	Plum Creek	Biological: low fish & invert IBIs, cause unknown
	742	IA 06-WED-0010_1	06-WED-1686	Keg Creek	Biological: low fish IBI
	743	IA 06-WED-0010_2	06-WED-1687	Keg Creek	Biological: low fish & invert IBIs, cause unknown
	744	IA 06-WED-0020_1	06-WED-1699	Mosquito Creek	Biological: low fish & invert IBIs, cause unknown
	745	IA 06-WED-0020_3	06-WED-1701	Mosquito Creek	Biological: low fish & invert IBIs, cause unknown
	746	IA 06-WED-00270-L_0	06-WED-1702	Arrowhead Pond	Algal Growth: Chlorophyll a
yes	747	IA 06-WEM-0010_0	06-WEM-1707	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	748	IA 06-WEM-0020_1	06-WEM-1708	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	749	IA 06-WEM-0020_2	06-WEM-1709	Missouri River	Bacteria: Indicator Bacteria, E. coli
	750	IA 06-WEM-00235-L_0	06-WEM-1711	Lake Manawa	Turbidity
	751	IA 06-WEM-00235-L_0	06-WEM-1711	Lake Manawa	Algal Growth: Chlorophyll a
yes	752	IA 06-WEM-00265-L_0	06-WEM-1714	Carter Lake	Fish Consumption Advisory: PCBs
yes	753	IA 06-WEM-0030_0	06-WEM-1715	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	754	IA 06-WEM-00340-L_0	06-WEM-1716	Desoto Bend	Algal Growth: Chlorophyll a
	755	IA 06-WEM-00340-L_0	06-WEM-1716	Desoto Bend	Turbidity
yes	756	IA 06-WEM-0040_1	06-WEM-1720	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	757	IA 06-WEM-0040_2	06-WEM-1721	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	758	IA 06-WEM-0040_3	06-WEM-1722	Missouri River	Bacteria: Indicator Bacteria, E. coli
yes	759	IA 06-WEM-00475-L_0	06-WEM-1734	Snyder Bend Lake	Algal Growth: Chlorophyll a
yes	760	IA 06-WEM-00475-L_0	06-WEM-1734	Snyder Bend Lake	Turbidity
yes	761	IA 06-WEM-00485-L_0	06-WEM-1735	Browns Lake	Algal Growth: Chlorophyll a

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	762	IA 06-WEM-00485-L_0	06-WEM-1735	Browns Lake	Bacteria: Indicator Bacteria, E. coli
	763	IA 06-WEM-00485-L_0	06-WEM-1735	Browns Lake	Turbidity
yes	764	none	01-TRK-6638	Pine Creek	Bacteria: Indicator Bacteria, E. coli
yes	765	none	06-LSR-6621	Sewer Creek	Fish Kill: Caused By Animal Waste
yes	766	none	01-WPS-6618	West Branch Pine Creek	Fish Kill: Caused By Animal Waste
yes	767	none	06-BSR-6609	West Rat Creek	Fish Kill: Caused By Pesticides
yes	768	none	01-TRK-6620	Unnamed Tributary to Otter Creek	Fish Kill: Caused By Pesticides

